

## PRODUCT'S VOLUNTARY DATA SHEET

*Security Data Sheets are documents with a legal defined application range, that must follow certain requirements regarding their format and their content ((Annex II of the REACH Regulation). Following the REACH regulation, the communication of important information through the SDS is solely required for dangerous substances and mixtures.*

*Therefore this Security Data Sheet is drawn up on a voluntary basis: it is not required pursuant to Article 31 of Regulation (CE) No 1907/2006. It is predisposed exclusively to provide a customer service and to allow a safe and conscious use of the product.*

### 1. Identification of the substance and company

<b>Productname</b>	SKYSTYR®
<b>Product-description</b>	POLYSTYROL REGRANULAT
<b>Trade Name</b>	SKYSTYR® (1) (2) (3) (4) (5)
<b>Positions 1, 2, 3, 4, 5 describe following abbreviations:</b>	= C, LI, MI, HI = Number = Q, S, T, C, X, F, V, Z, H, L, N, R, = OTHER COLOR = OTHER ABBREVAITIONS
<b>Chemical composition</b>	POLYSTYROL HOMOPOLYMER/COPOLYMER
<b>REACH number</b>	01-2119422891-40- Styrene
<b>CAS number</b>	9003-53-6
<b>Producer / Supplier</b>	SKYMAX SPA  Via dell'Artigianato, 3 - 31010 Fonte (TV) Tel. +39 0423 946235 - Fax +39 0423 946219 E-mail <a href="mailto:lserraglia@skyplastic.com">lserraglia@skyplastic.com</a>  SKY PLASTIC RECYCLING AND COMMERCE GMBH  Industriezone Ost 5; A9111 Haimburg E-mail <a href="mailto:office@skyplastic.com">office@skyplastic.com</a>
<b>Emergency number</b>	SKYMAX SPA  +39 0423 946235 From Monday to Friday: 8.00 – 12.00; 13.00 – 18:00  SKY PLASTIC RECYCLING AND COMMERCE GMBH  0043 01 406 43 43 From Monday to Sunday: 00:00 – 24:00

### 2. Hazards identification

**Dangers for man and environment** Heated material can cause burns. If spilled material is slippery. Also can occur in the processing of electrostatic discharge. Possible formation of electrostatic charges during handling. On heating the material fumes can irritate the eyes and mucous membranes.

**Classification system** According to Regulation CEE 1999/45, 1967/548, Regulation (EC) 1907/2006, Nr.830/2015, Regulation (EC) 1907/2006 (CLP) and successive versions this material was not classified as dangerous.

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### 3. Composition / information on ingredients

**Chemical Properties: ingredients** The Complex preparation of the material includes the following materials:  
Poly(styrene) (Cas 100-42-5)  
additives and stabilizers (non toxic)  
dyes and pigments

### 4. First-aid measures

**General instructions** At normal ambient temperature, the product is not irritating, and there are no fumes. The actions listed below apply to critical situations (fire, improper use)

**Inhalation** Repeated inhalation of steaming, you should get the person to fresh air immediately. Further you should immediately contact a physician. Also you should ventilate the person immediately.

**Skin contact:** At direct contact with the skin you should immediately flush them with fresh water. The cooled mass may not even be detached from the skin. Immediately consult a doctor.

**Eye Contact:** Flush eyes wide open under running water for several minutes, immediately contact a doctor.

**Ingestion:** No specific measures for ingestion of the product in its existing form. If necessary consult a doctor.

### 5. Fire-fighting measures

**Extinguishing Media** Water, foam, dry chemicals, CO<sub>2</sub> - extinguisher

**Special hazards caused by substance, its combustion gases or resulting gases** In case of fire may form the following materials: water (H<sub>2</sub>O), carbon dioxide (CO<sub>2</sub>), in oxygen deficiency carbon monoxide (CO). The fire originated substances are dangerous. In the early stages of the fire (especially between 400°C-700°C) the formation of hydrocarbons and aldehyde (acetic and crotonic acid) is possible.

**Specific precautions** wearing respirator

### 6. Measures unintentional discharge

**Protective measures for people** No special measures required. See point 8

**Environmental protection measures** No special measures required. See point 12 and 13

**Methods for cleaning** Smaller quantities put in a labeled container. Safe disposal must be given. When larger amounts - same procedure as for smaller amounts. Recycling or safe disposal of the product must be given. See point 13

**Other measures** To avoid the risk of slipping collect spilled material

### 7. Handling / Storage

**Instructions for use** No special instructions at ambient temperature. Avoid the release of the product - slippery surface. Vapors can arise at processing temperature: development of propylen ethylene, hydrocarbons with low molecular weight and their oxidation products, solvents, traces of aldehyde (formaldehyde and acroleyn), traces of acids (formic and acetic acid). During the process you must wear masks and there must be an aspiration system.  
In the case of colored products the prescribed processing temperatures should not be exceeded, as may arise from the dyes / pigments, hazardous decomposition products. Experimental trials in various phases of production have been identified that the level of



formaldehyde, acroleyn, formic acid and acetic acid are well below the TLV - TWA level. If during transportation or handling is produced powder, take precautions against the risk of explosions.

<b>In case of fire or explosion</b>	No special measures required
<b>Storage</b>	Precautionary measures against static electricity. No smoking. No flames. Products should be stored in big bags, tanks, container or carton.
<b>Provisions for mixed</b>	No special measures required
<b>Other measures</b>	Protection from direct sun / heat exposure. Store in a well ventilated and dry place. Maximum storage height of 2 big bags.

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## 8. Exposure controls and personal protective equipment

<b>General guidance for protection and hygiene</b>	While working, it's not allowed to eat and drink. Smoking is strictly forbidden. Provide plant to suck up the fumes during process.
<b>Limits during processing</b>	not Specified
<b>Additional limits for exposure to potential hazards During the production process</b>	107-02-8 Acrylaldehyde - TWA Short-term value: C 0.23 mg / m <sup>3</sup> , C 0.1 ppm; Cute, A4 50-00-0 Formaldehyde - TWA Short-term value: C 0.37 mg / m <sup>3</sup> , C 0.3 ppm; sen, A2 64-19-7 Acetic Acid - TWA Short-term value: 37 mg / m <sup>3</sup> , 15 ppm Long-term: 25 mg / m <sup>3</sup> , 10 ppm 64-18-6 Formic Acid - TWA Short-term value: 19mg / m <sup>3</sup> , 10 ppm Long-term: 9.4 mg / m <sup>3</sup> , 5 ppm
<b>Respirator</b>	Use a respirator while handling the product if no exhaust system is available.
<b>Protective gloves</b>	Thermal Insulating Gloves
<b>Safety glasses</b>	It is recommended to wear protective glasses during the transfer of the material.
<b>Protective Clothing</b>	Normal working clothes

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## 9. Physical and chemical properties

<b>Form</b>	granules
<b>color</b>	see position N. 4 of the description SKYSTYR®
<b>Odor</b>	odorless
<b>Melting temperature</b>	90-130°C
<b>Boiling Point</b>	not specified
<b>Flash point</b>	> 385°C
<b>Ignition Point</b>	> 400°C
<b>Decomposition temperature</b>	> 300°C
<b>Danger of explosion</b>	Product is not explosive - See Point 7
<b>Density at 20 ° C</b>	1,05 kg/dm <sup>3</sup>
<b>Solubility in Water</b>	No solubility
<b>Further informations</b>	Soluble in chlorinated aromatic solvents - Cooking / boiling

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## 10. Stability and reactivity

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**Thermal decomposition / conditions to be avoided**

During normal handling or storage of the product is stable. The product decomposes at a temperature above 300°C with decomposition residues.

**Materials to avoid**

Strong oxidizing agents that promote the decomposition of the product

**Hazardous reactions**

None known

**Hazardous Decomposition Products**

At ambient temperature - not known

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**11. Toxicological**

**High Toxicity**

Escaping gases and vapors can irritate your eyes, skin and nose. Vapors and mists of the product which are produced at high temperatures are irritating eyes and respiratory tract.

**The first signs**

On the skin: no irritation  
In the eyes: no irritation  
Hypersensitivity: None known

**Additional information**

According to our experience, the product is not hazardous to our health if our rules are adhered to handle.

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**12. Ecological**

**Bioaccumulation potential mobility**

It has no specific bioaccumulation.

**Further informations**

The product is not biologically degradable. Do not introduce into the environment. The product is not toxic, but small parts can afford physical effects on aquatic organism.

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**13. Disposal:**

**Recommendations**

The material can be recycled according to the current regulations. The recycling has to occur through an authorized recycler. Do not discharge in drainage systems, streams, wells or environment in general. Incineration and disposal must be in accordance with EU directives, but also be carried out according to national and state-related laws. Check before reuse. Empty containers could (if they are not contaminated) be re-used or used either for internal materials.

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**14. Transport information**

**Transport / Further information**

The product is not dangerous according to national and international regulations for transport, road, rail, sea and air.

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**15. Regulations**

**Authorizations**

No substance included in Annex XIV was identified.

**Use restrictions**

No substance included in the Candidate List was identified.

**Classification according to EU regulation**

The substance has no obligation to classification according to the EU list and also all other available sources.

**Other regulations, prohibitions and restrictions**

All national and European regulations apply to this product.



## 16. Other Information

NOTICE: This Material Safety Data Sheet is based on data available at the time of the data-preparation with the aim of the right product for the environment, health and safety requirements described.

This data sheet should not be construed as a guarantee for the special quality of the product.

The company SKYMAX assumes no responsibility for changes made by third parties or improper handling of the product according to the previous description and also for the improper use of the product which was not predictable.

The buyer of the product must ensure that the information corresponding to its processing of the product. This sheet was written in compliance with the CEE regulation 91/155.

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