

Material Safety Data Sheet

1- Chemical Product and Company identification

Trade name: **Heliumcell / Whitecell**

Company **SICOMIN Composites**
RN 568 Quartier la Moutte BP 23
13 161 Châteauneuf-les-Martigues Cedex -France-
Phone: 33.(0)4.42.42.30.20 Fax: 33.(0)4.42.81.29.29 composites@sicomin.com

2- Composition / Information on ingredients

Description: Copolymer encapsulating a blowing agent

	Cas n°	Content w%	Classification	Risk phrase
Acrylonitrile	107-13-1	< 0.01	T, F	45 11 23/24/25 38
Methacrylonitrile	126-98-7	< 0.01	T, F	11 23/24/25 43
Isopentane	78-78-4	6 - 16	F	13
Copolymer	38742-70-0	> 80		

3- Hazards identification

Dust explosion hazard. Lowest explosion concentration app. 100 g/m³.
Toxic fumes (HCN) may occur as a decomposition product in case of fire.

4- First aid measures

First aid:

Inhalation: Fresh air
Skin contact: wash with soap and water
Eye contact: Flush thoroughly with water
Ingestion: Drink a glass of water

Health effects:

Inhalation: Inhalation of airborne particules may cause transient irritation in nose, mouth and throat.
Skin contact: Use has shown to be non-irritant. May cause dryness.
Eye contact: May cause irritation
Ingestion: No acute health effect anticipated, due to chemical composition

Medical attention:

Professional assistance by a doctor is not needed

5- Fire-fighting measures

Extinguishing media: foam, CO₂, waterspray is recommended.
Containers close to fire should be transferred to a safe place.
Toxic fumes may occur as a decomposition product in case of fire.

6- Accidental release measures

If material is spilled, eliminate all sources of ignition and prevent spark formation as a result of static electricity.
Use respiratory mask when handling the product if dusting cannot be avoided.
Sweep up material.

7- Handling and storage

Handling:

Use adequate ventilation to control airborne particles. Keep containers closed as far as possible.
When emptying containers of Heliumcell, special precautions should be taken.
Eliminate all source of ignition where product is handled. Use grounded electrical equipment.

Storage:

Store in a dry place at temperature below 40°C. Eliminate all sources of ignition where Heliumcell is stored.

8- Exposure controls / Personal protection

Use a respiratory mask when handling the product if dusting cannot be avoided.

9- Physical and chemical properties

Appearance:	White dry powder
Odour:	No particular odour
Particle size:	5 - 100 µm
Ph:	10 when dispersed in water
Boiling point:	na
Melting point:	na
Explosive properties:	Dust explosion hazard at high concentration K _{st} = 163 bar.m/s Ignition energy = 7.5 mJ
Relative density:	0.02 - 0.04 (H ₂ O = 1)
Solubility in water:	Insoluble
Soluble in:	Dimethylacetamide, Dimethylformamide

10- Stability & reactivity

The product is stable and no hazardous reaction will occur

11- Toxicological informations

Tests according to Magnusson & Kligman, gave no reasons to believe that the product can cause allergy.

LD 50 oral, rat: > 19 000 mg/kg

12- Ecological information

- Acute toxicity LC 50 / goldfish / 96 hours: > 5000 ppm (nontoxic absolutely)

- Pseudomonas putida: despite maximum amount of 10 g/liter, no toxicological effect was found.

- Wassergefährdungsklasse: WGK = 0

13- Disposal considerations

The material can be used as landfill or for incineration. Caution: toxic fumes (HCN) is formed.

14- Transport information

Not Classified as dangerous goods.

15- Regulatory information

Classification: Not classified as harmful substance

Chemical inventories: TSCA / EINECS / AICS: all components listed

16- Other information:

The information herein is given in good faith and to the best of our knowledge but no warranty, express or implied, is made. Since the use of this information and the conditions of use of the product are not within our control, it is the user's obligation to determine the condition of safe use of the products.

NA: Not applicable ND: Not determined