

TECHNICAL DATASHEET

The enclosed Safety Data Sheet (SDS) presents data applicable for the raw materials used in the preparation of the polyester mesh and is based on information obtained from the raw material supplier.

The toxicity information indicates that adverse effects are unlikely to result from exposure to these materials during industrial handling. They are unlikely to cause eye or skin irritation and are unlikely to cause any adverse systemic injury from skin absorption, oral injection or inhalation.

Section 1: Supplier Information

Common Name: Nylon (polyamide) Mesh (16 and 33 sizes)
Supplier: Gel-Pak
City/State/Zip: Hayward, CA 94544
Phone: 1-510-576-2220

Section 2 :General Information

Common Name: Nylon Mesh
Main Ingredient: Polyamide 6.6 Fabric
Product CAS #: 32131-17-2

Section 3: Hazards Identification

3.1 Classification of the substance or mixture.

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

The product is an article according Regulation (EC) n.1907 /2006 Regulation (REACH); therefore, it does not apply to the classification criteria and labeling prescribed by the (EEC) Directives 1967/548 and (EC) 1999/45 and the (CLP) Regulation (EC) n.1272/2008.

Hazard classification and indication: --

3.2 Label elements

Hazard pictograms: --

Signal words: --

Hazard statements: --

Precautionary statements: --

The product is an article according Regulation (EC) n.1907/2006 (REACH); therefore, it does not require labeling of danger.

3.3 Other hazards.

On the basis of available data, the product does not contain any PBT, or vPvB in percentage greater than 0.1%.

Section 4: First Aid Measures

4.1 Description of first aid measures.

Not specifically necessary. Observance of good industrial hygiene is recommended.

4.2 Most important symptoms and effects, both acute and delayed.

No episodes of damage to health ascribed to the product have been reported.

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

Information not available.

Section 5: Fire Fighting Measures

5.1 Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

Non in particular.

5.2 Extinguishing media.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breath combustion products.

5.2 Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN469), gloves (BS EN659), and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN137).

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures.

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

6.2 Environmental precautions.

Product must not penetrate into the sewer system or come into contact with the surface or ground water.

6.3 Methods and material for containment and cleaning up.

Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4 Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling.

Handling in accordance with good industrial hygiene and safety practices.

Fire precautions: Remove dust, fly, and finish residues by ventilation and vacuum cleaning, especially on heat setting operations. Keep away from ignition sources. Beware of static electricity and discharges.

7.2 Conditions for safe storage, including any incompatibilities.

No special safety precautions for storage rooms.

Consider technical advises referring to optimal processability.

Packaging: Plastic bags, cardboard box with cardboard spacers. Plastic stretch wrap.

Storage class TRGS 510 (Germany): 11

7.3 Specific end use(s).

Information not available.

Section 8: Exposure Controls / Personal Protection

8.1 Control parameters.

Information not available.

8.2 Exposure control.

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION

None required.

SKIN PROTECTION

None required.

EYE PROTECTION

None required.

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties.

Appearance	Solid
Color	According to product specification
Odor	Odorless
Odor Threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	Not available
Evaporation Rate	Not available
Flammability of solids and gases	Not available

Lower flammability limit	Not available
Upper flammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.140 g/cm ³
Solubility	Not available
Partition coefficient: N-octanol/water	Not available
Auto-ignition temperature	420° C
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidizing properties	Not available

9.2 Other Information.

VOC (Directive 2010/75/EC):	0
VOC (volatile carbon)	0

Section 10: Stability and Reactivity

10.1 Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

10.2 Chemical stability.

The product is stable in normal conditions of use and storage.

10.3 Possibility of hazardous reactions.

Decomposition at elevated temperatures may release dangerous vapors.

10.4 Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

10.5 Incompatible materials.

Information not available.

10.6 Hazardous decomposition products.

Depending on temperature and oxygen availability, combustion off-gases contain variable quantities of toxic substances: carbon monoxide (CO), hydrogen cyanide (HCN), Nitrous oxides (NOx) and various organic compounds, which must not be inhaled.

Section 11: Toxicological Information

11.1 Information on toxicological effects.

Information not available.

Section 12: Ecological Information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1 Toxicity.

Information not available.

12.2 Persistence and degradability.

Information not available.

12.3 Bioaccumulative potential.

Information not available.

12.4 Mobility in soil.

Information not available.

12.5 Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0.1%.

12.6 Other adverse effects.

Information not available.

Section 13: Disposal Considerations

13.1 Waste treatment methods.

Can be disposed of as solid waste or burned in suitable installations, subject to local regulations.
Recycling or thermal recycling is recommended for both the product and packaging material.

Section 14: Transportation Data

14.1 UN Number.

Not applicable

14.2 UN proper shipping name.

Not applicable

14.3 Transport hazard class(es).

Not applicable

14.4 Packing group.

Not applicable

14.5 Environmental hazards.

Not applicable

14.6 Special precautions for user.

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

Information not relevant.

Section 15: Regulatory Information

Gel-Pak 31398 Huntwood Avenue, Hayward, CA 94544-7818
510-576-2220 – TEL 510-576-2282 – FAX www.gelpak.com

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

<u>Seveso category</u>	None
<u>Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006</u>	None
<u>Substances in Candidate List (Art. 59 REACH)</u>	None
<u>Substances subject to authorization (Annex XIV REACH)</u>	None
<u>Substances subject to exportation reporting pursuant to (EC) Reg 649/2012</u>	None
<u>Substances subject to the Rotterdam Convention</u>	None
<u>Substances subject to the Stockholm Convention</u>	None
<u>Healthcare controls</u>	Information not available
<u>German regulation on the classification of substances hazardous to water (VwVwS 2005)</u> WFK1: Low hazard to waters.	

15.2 Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

Section 16: Other Information

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by road.
- CAS NUMBER: Chemical Abstract Service Number.
- CE50: Effective concentration (required to induce a 50% effect).
- CE NUMBER: Identifier in ESIS (European archive of existing substances).
- CLP: EC Regulation 1272/2008.
- DNEL: Derived No Effect Level.
- EmS: Emergency Schedule.
- GHS: Globally Harmonized System of classification and labeling of chemicals.
- IATA DGR: International Air Transport Association Dangerous Goods Regulation.
- IC50: Lethal Concentration 50%.
- IMDG: International Maritime Code for dangerous goods.
- IMO: International Maritime Organization.
- INDEX NUMBER: Identifier in Annex VI of CLP.
- LC50: Lethal Concentration 50%.
- LD50: Lethal Dose 50%.
- OEL: Occupational Exposure Level.
- PBT: Persistent bioaccumulative and toxic as REACH Regulation.
- PEC: Predicted environmental Concentration.
- PEL: Predicted exposure level.
- PNEC: Predicted no effect concentration.
- REACH: EC Regulation 1907/2006.
- RID: Regulation concerning the international transport of dangerous goods by train.
- TLV: Threshold limit value.

- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit.
- TWA: Time-weighted average exposure limit.
- VOC: Volatile organic compounds.
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation.
- WGK: Water hazard classes (GERMAN).

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments.
2. Directive 67/548/EEC and following amendments and adjustments.
3. Regulation (EU) 1907/2006 (REACH) of the European Parliament.
4. Regulation (EU) 1272/2008 (CLP) of the European Parliament.
5. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament.
6. Regulation (EU) 453/2010 of the European Parliament.
7. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament.
8. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament.
9. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament.
10. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament.
11. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament.

- The Merck Index. – 10th Edition
- Handling Chemical Safety
- Niosh – Registry of Toxic Effects of Chemical Substances
- INRS – Fiche Toxicologique (toxicological sheet)
- Patty – Industrial Hygiene and Toxicology
- ECHA website

Notes for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.