

TENAX Corporation

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www.tenaxus.com

Safety Data Sheet PPPE0409 (Updated 4/27/2009)

1 Identification of substance

Product details: TENAX extruded plastic nets and grids, in **polyethylene** and **polypropylene**
Trade name: TENAX
Application: Agriculture, Aquaculture, Construction, Fencing, Sport, Packaging, Industry, Geotechnic, Pipeline, Landfills
Company name: TENAX Corporation
Office: 4800 East Monument Street, Baltimore, MD 21205 USA
Telephone in case of emergency: 1-800-356-8495

2. Hazards identification

The TENAX products do not present particular hazards or risks at normal application temperatures.

Physical-chemical risks: The product is flammable and it could burn only in case of a temperature higher than the heating point (>300°C). The friction due to the shearing of the product may create electrostatic charges that release little sparks and originate fire primers.

Application symptoms: Some products may present sharpened edges that may puncture pick or cut the skin.

Environmental risks: The Tenax products are not biodegradable.

3. Composition / Information on ingredients

The supplied products are composed by one of the following compound:

<u>Name</u>	<u>Symbol</u>	<u>CAS#</u>	<u>Percentage</u>
A) Polyethylene Masterbatches and color additives	(PE)	9002-88-4	≅100% < 2%
B) Polypropylene Masterbatches and color additives	(PP)	9003-07-0	≅100% < 2%



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4. Measures of first aid

Exposure types

- inhalation: In case of excessive inhalation of fumes produced at high temperature (ex: fire), bring immediately the affected person to the fresh air. Medical assistance is required immediately.
- skin contact: In case of exposure to drops of molten product, dip or rinse the affected area with cold water. Do not try to remove the contaminated clothes to avoid the laceration of the damaged skin tissues. An immediate medical assistance is required.
- eyes contact: Remove any particles entering the eyes as any other extraneous body.
In case of exposure to molten product, flush out with a copious volume of fresh water, and hospitalize the injured as soon as possible.
- ingestion: This product is an inert solid difficult to be ingested. Normally first aid assistance is not necessary.

5. Fire fighting measures

Technical measures: Cut the fire feeding. Call immediately the firefighters. Take away the outsiders. The firefighters must wear the protection means for eyes and respiratory ways.

Recommended extinguishing media

- appropriate: Carbon dioxide, dry chemicals, nebulized water to cool the surfaces exposed to the fire.
- forbidden: Use caution in utilizing at first the fire lances since they could spread the fire flames.

Special equipment: In case of an overexposure to the fumes, the fire operators must wear the suitable clothes and respiratory tools.

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6. Accidental release measures

Individual precautions:	Give the due attention in case the rolls would unroll since the operator could become entangled, stumble or slide. Eventually protective gloves and accident- prevention shoes should be worn.
Environmental precautions:	Recuperate all the material and disposes it accordingly to the applicable regulations. The Tenax products are completely recyclable.
Surface cleaning method:	Avoid dispersing the product in the environment. Pick up the dispersed or utilized product in suitable containers for an eventual utilization, disposal or recycling.
Water cleaning method:	Notify the Authorities in case of floating or dispersed products in a waterway or in a sewer. Consult an expert to eliminate the product according to the current local regulations, as well as the regional and domestic ones.

7. Handling and storage

Protective measures:	Storage temperature: < 40°C Transport temperature: < 40°C
Handling:	The gross weight of the rolls is indicated on the related labels. If the weight is over the allowed limits of the law, lift the rolls using more persons or using mechanical means.
Storage:	Store the products in a dry and airy place, protected from exposure to the sun rays. The product may be damaged by the U.V. rays. Do not store it with flammable materials. Store the product away from heat sources.

8. Exposure controls / individual protection

Exposure control: Not applicable.

Individual protection

- respiratory: Not applicable.
- of the hands: It can be necessary the use of protective gloves for handling some products that may pick or cut the skin.



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| - of the skin: | It can be necessary the use of protective clothes for handling some products that may pick or cut the skin. |
| - of the eyes: | It can be necessary the use of protective glasses for handling some products that may pick. |

9. Physical and chemical properties

Aspect:	nets or grids in rolls or boxes
Physical aspect at 20°C:	solid
Odor:	odorless
pH:	not applicable
Melting range:	from 90°C to 160°C
Flash point:	> 300°C
Flammability:	> 300°C
Relative density at 20°C:	from 0.5 to 1.0
Solubility in water:	insoluble
Viscosity:	not applicable

10. Stability and reactivity data

Chemical stability:	Stable at normal usage conditions.
Conditions to be avoided:	Avoid close proximity to flames or sparks. Do not heat at a temperature higher over than 110°C.
Substances to be avoided:	Avoid strong oxidative and fluorine liquids.
Dangerous decomposition products:	During the combustion, in presence of an excess of air, it generates CO ₂ and water; for incomplete combustion it forms CO, ash and decomposition products (Aldehyde, Ketoses, Hydrocarbons and fat acid volatile).

11. Toxicological information

Symptoms related to the use

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| - inhalation: | Minor risks for temperatures lower than 60°C.
At temperature higher than 200°C fumes can develop provoking irritations to the respiratory ways, cough and a breathlessness sensation. |
| - skin contact: | No risks for temperatures lower than 60°C.
The contact with the molten product can cause serious burns. |



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- eye contact :	Fine dusts generated from product grinding may cause eyes' irritations.
- ingestion:	Molten drops can cause serious injuries. Low grade of toxicity. If ingested it may cause occlusion. It is considered physiologically inert.
Cancerogenic effects:	The product is not classified as cancerogenic.

12. Ecological information

Ecological effects:	It shall be used according to the good work practices, without disposing the product in the environment. The Tenax products are completely recyclable.
Mobility:	No data available.
Biodegradability:	Not biodegradable.
Ecotoxicity:	Non toxic.
Bioaccumulability:	No data available

13. Disposal considerations

Waste disposal:	The Tenax products are completely recyclable class PP and PE of plastic material. The product shall be disposed in authorized disposals according to the existing laws or disposed in appropriate area for recycling. Do not dispose in the environment. It can be burn with urban waste. It can be used as combustibles in all suitable applications.
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14. Transport information

By lorry / by rail:	No limitations.
By sea / by air	No limitations.
Class of danger:	Not applicable.

15. Regulatory information

Labels (EEC symbols):	It is not classified as dangerous according to the EEC directive 67/548, 88/478 and updating.
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16. Other information

Training indications:	Data not available
Usage recommendation:	No peculiar prescriptions are available.



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Other information:

On requests, are available application and installation instructions for the purchased products.

The safety data sheet is published in agreement to European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and further revisions.

All the above information is considered correct and given in good faith. TENAX do not accept any sort of liability in case the products are used improperly.

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