

MATERIAL SAFETY DATA SHEET

Black, White and Porous Expanded Polypropylene ARPRO[®]

IMPORTANT

Read this MSDS before handling and disposing of this product and pass this information on to all users of this product.

1. Substance/preparation and company identification

1.1 Company

JSP International
Zone Industrielle le Bois Chevalier
Route de Francières
F-60 190 Estrées-Saint-Denis
France

Tel. : +33 (0)3 44 91 70 00
Fax. : +33 (0)3 44 91 60 00

1.2 Product identification

Trade name: ARPRO[®]
Chemical name : Ethylene Propylene Copolymer
Chemical Family: Polypropylene
Emergency phone number + 33 (0)3 44 91 70 00

2 Composition/ information on ingredients

2.1 Composition

Compositions given are typical values, not specifications.

<u>Component</u>	<u>% Weight</u>	<u>CAS No</u>	<u>EINECS No</u>
Polypropylene Copolymer:	95.0 - 99.9	9010-79-1	Not applicable
Carbon Black:	0.1 – 5.0	1333-86-4	215-609-9
	0.0 for white ARPRO		

2.2 Information on components

Hazardous component(s): None

3. Hazards Identification

Risk Phrases: None

Not harmful to health or environment under normal use of product.

If material is heated up, may cause burns.

MATERIAL SAFETY DATA SHEET

Black, White and Porous Expanded Polypropylene ARPRO[®]

4. First aid measures

Inhalation:	Not expected to present a significant inhalation hazard. In case of breathing excessive airborne dust, move people away and make blow his nose.
Skin contact:	Not expected to present a significant skin hazard under anticipated conditions of normal use. Any molten material on skin should be cooled as quick as possible. Seek immediate medical attention.
Eye contact:	Rinse the eyes in order to remove particles of the product.
Ingestion:	Not applicable under normal conditions of use.

5. Fire fighting measures

Usual extinguishing methods:	Water (preferably spray), CO ₂ , foam or dry chemical.
Special exposure hazards:	Combustible material. Heat sensitive: may melt. Molten material forms flaming drops after igniting. Incomplete thermal decomposition or burning may release hazardous products and/or flammable vapours (like ethylene, ethane, carbon monoxide, propane, etc.)

In case of close fire fighting, use breathing apparatus.

6. Accidental release measures

Spilled product may create slipping hazard on any hard smooth surface. Quickly sweep up product.

Handle and store according to measures defined in section 7.

Use personal protection defined in section 8.

Cleaning methods: Collect product in an appropriate way and avoid dust formation. Place in suitable labelled container for appropriate disposal (See Section 13).

7. Handling and storage

Handling: In order to avoid static discharge, equipment should made of conducting material and be earthen.

Storage: Keep away from heat or ignition sources (flame or sparks). Do not smoke.

MATERIAL SAFETY DATA SHEET

Black, White and Porous Expanded Polypropylene ARPRO[®]

8. Exposure controls / Personal protection

Occupational Exposure:	France: VME = 10 mg/m ³ (8 hour basis - Decree 84-1093)
<i>Dust</i>	USA: TLV (ACGIH) 1997-98 : TWA= 10 mg/m ³ .
Collective protection:	Good general ventilation should be provided.
Personal protection:	Goggles should be worn for all industrial operations.
Skin protection:	Under anticipated conditions of normal use: not normally considered as skin hazard. Use suitable protection gloves and clothes against contact with molten product.
Industrial hygiene:	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities.

9. Physical and chemical properties

Appearance:	Plastic beads
Physical state at 25° C:	Solid
Colour:	Black or white, (according to type)
Odour:	Odourless
Density at 25°C (kg/m ³):	(ARPRO [®] Type) 10 to 200
Solubility in water (in weight %):	Insoluble
Other solvents:	Slightly soluble in hot organic solvents
Melting point temperature (°C):	130-170
Decomposition temperature (°C):	~ 300
Auto-ignition temperature (°C):	~ 350

10. Stability and reactivity

The product is stable in normal use conditions.

Decomposition products:	Incomplete combustion will generate carbon monoxide and perhaps other toxic vapours.
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11. Toxicological Information

Refer to section 3.

Acute Toxicity:	LD50 not available
Inhalation:	Dust can irritate the upper respiratory tract.
Skin contact:	Although no appropriate human or animal health effects data are known to exist, this material is expected not to be skin irritant.
Eye contact:	Can induce irritation or injury of the cornea due to a mechanical action.
Ingestion:	Product ingestion can create a wrong satiety feeling.
Chronic Toxicity:	No chronic health effects for this material have been reported.

MATERIAL SAFETY DATA SHEET

Black, White and Porous Expanded Polypropylene ARPRO[®]

12. Ecological information

Product is biologically inert and not readily degradable.

13. Disposal considerations

Dispose of product in accordance with local and national regulations on waste disposal. User should try to recycle or reuse material.

14. Transportation information

UN No.	Not classified.
ADR/RID	Not classified.
ADR/VLG	Not classified.
ADNR	Not classified.
IMO-IMG code	Not classified.
ICAO/IATA	Not classified.

15. Regulatory information

EEC Labelling	
Symbol(s):	None.
R Phrase(s):	None.
S Phrase(s):	None.

The contents and format of this MSDS are in accordance with EEC Commission directives 67/548/EEC, 91/155/EEC (and its modification 2001/58/EC), 1999/45/EC and their adaptations to technical progress.

16. Other information

All information contained herein is based on the present state of our knowledge at the date of issue. It is believed to be accurate. It is intended to describe products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

Under no circumstances is the user exempt from respecting legislative or administrative texts related to the product in term of safety, hygiene, and health and environment protection.

This product should be stored, handled and used in accordance with good industrial hygiene practices and according to local regulations.

For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use of disposal of the product.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.