

This Safety Data Sheet (SDS) is provided to assist you in the unlikely event that you experience any difficulties whilst using or handling the product and provides information on first aid measures, fire safety, accidental spillage, safe handling and disposal. First aid measures are 'common sense' guidelines. In case of fire ideally use a water spray extinguisher (CO₂, foam and dry chemical extinguishers can also be used). Do not store the product near ignition sources. Sweep up all spillages immediately; and ensure that local and national legislation is followed if disposing of the product.

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name(s)	ARPRO
	Please see specific notes for ARPRO 4135 FR.
Chemical name	Polypropylene copolymer
Chemical family	Polypropylene

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s)	For industrial processing only. Manufacture of 100% recyclable parts providing; energy absorption and structural strength at very low weight, as well as chemical resistance and thermal and acoustic insulation.
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1.3 Details of the supplier of the safety data sheet

Company identification	JSP 14 Route de Francières 60190 Estrées-Saint-Denis France
E-mail	SDS@jsp.com

1.4 Emergency telephone number

Emergency telephone	+ 33 3 44 91 70 30 (24 hours)
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2. Hazard identification

2.1 Classification of the substance or mixture

ARPRO is not classified as dangerous for supply/use. No need for classification according to CLP Regulation (EC) N° 1272/2008.

2.2 Label elements

No specific labelling is required for ARPRO.

2.3 Other hazards

The molten form may cause thermal burns if in contact with skin.

3. Composition / information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

ARPRO Black, Grey, Porous, Application Specific, On-site expansion, Recycled grades incorporate mineral and organic elements in a mix of polypropylene copolymer and carbon black.

Ingredient(s)	Weight (%)	CAS N°	Hazard pictogram(s) & hazard statement(s)
Polypropylene copolymer	> 90	9010-79-1	None
Carbon black	0 to 10	1333-86-4	None

ARPRO White, ARPRO Colours and ARPRO 35 Ocean incorporate mineral and organic elements in a polypropylene copolymer.

Ingredient(s)	Weight (%)	CAS N°	Hazard pictogram(s) & hazard statement(s)
Polypropylene copolymer	> 80	9010-79-1	None

There is no EC N° or REACH registration number assigned for polypropylene copolymer.

The EC N° for carbon black is 215-609-9 and there is no REACH registration number assigned.

4. First aid measures

4.1 Description of first aid measures

Inhalation:	The products do not normally present an inhalation hazard. In case of inhaling excessive airborne dust (dust is not present under normal conditions of use), move to an area free of airborne dust. In case of inhalation of combustion or decomposition fumes, move to fresh air and seek medical advice.
Skin contact:	The products are not expected to present a skin hazard. If skin irritation is experienced, wash the area thoroughly and seek medical advice if symptoms persist.
Eye contact:	In case any particles or particle dust comes in contact with eyes, rinse eyes with clean running water. Seek medical advice if symptoms persist.
Ingestion:	If you swallow any of the product, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No significant reaction of the human body is known. These products are not classified as hazardous. The molten form may cause thermal burns if in contact with skin.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Water (preferably spray), CO ₂ , foam or dry chemical.
Unsuitable extinguishing media	High volume water jet.

5.2 Special hazards arising from the substance or mixture

Combustible material. Heat sensitive: may melt.
Material burns by forming flaming drops.
Incomplete thermal decomposition or burning may release hazardous products and/or flammable vapours (like ethylene, ethane, carbon monoxide, propane etc.).
ARPRO 4135 FR: Combustion gases may contain phosphorous pentoxide, phosphoric acid and hydrogen bromide.

5.3 Advice for firefighters

Do not breathe fumes from heated product. Wear self-contained breathing apparatus.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Spilled product may create slip hazard on any hard smooth surface.

6.2 Environmental precautions

Do not allow discharge to environment.

6.3 Methods and material for containment and cleaning up

In case of spillage, sweep up all loose material immediately to eliminate trip hazard and to eliminate risk of emissions to the environment.

Methods for cleaning up: Avoid dust formation. Collect the spilled product into a suitable container. Organise appropriate disposal (refer to section 13).

7. Handling and storage

7.1 Precautions for safe handling

Ensure adequate ventilation and avoid the formation and deposition of dust. In order to avoid static discharge, equipment should be made of electrically conductive material and be earthed.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Keep away from heat or ignition sources (flame or sparks) and UV exposure. Store in a cool and dry place.
Storage life	Indefinite under recommended storage conditions.
Incompatible materials	Strong oxidising agents.

7.3 Specific end use(s)

Industrial use.

8. Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limits: none.

Component with occupational exposure limits: none.

Dust is not present under normal conditions of use. Dust might be generated by abrasion of ARPRO in conveying system.

8.2 Exposure controls

8.2.1 Local exhaust recommended.

Under anticipated conditions of normal use these products are not considered as a respiratory hazard. Ensure adequate ventilation, especially in confined areas.

8.2.2 Individual protection measures, such as personal protective equipment.

Occupational exposure controls	No special precautions are necessary.
Eye / face protection	Under anticipated conditions of normal use these products are not considered as hazardous to the eyes.

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	Safety glasses can prevent the risk of the product coming into contact with the eyes.
Skin and hand protection	Under anticipated conditions of normal use these products are not considered as a skin hazard.
Respiratory protection	Under anticipated conditions of normal use these products are not considered as a respiratory hazard.
Thermal risk	When manipulating heated material: wear insulated gloves.
General safety and hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

8.2.3 Environmental exposure controls: prevent from entering public sewers. No special measures required.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Small particles
Physical state at 25°C	Solid
Colour	Various depending on ARPRO grade.
Odour	Odourless
Odour threshold	Not established
Melting point temperature	130 - 170°C
Boiling range	The product decomposes therefore not determined.
Flash point	> 200°C
Relative density	<1
Solubility in water	Insoluble
Other solvents	Slightly soluble in hot organic solvents.
Auto-ignition temperature	~ 350°C all grades
Thermal decomposition	> 180°C
Oxidising properties	Not oxidising

Evaporation rate, pH, upper/lower flammability, explosive limits, vapour pressure, vapour density, partition coefficient n-octanol/water, viscosity and explosive properties are all not applicable to ARPRO.

9.2 Other information

Bulk density: 10 to 215g/l (at 25°C)

10. Stability and reactivity

10.1 Reactivity

No hazardous reaction if stored and handled as prescribed.

10.2 Chemical stability

These products are chemically stable.

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10.3 Possibility of hazardous reactions

These products are stable if stored and handled as prescribed.

10.4 Conditions to avoid

Avoid extreme heat and all sources of ignition (flame or sparks).

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

No hazardous decomposition if the product is used as recommended. Upon prolonged and / or strong heating, decomposition products may be released.

11. Toxicological information

11.1 Information on toxicological effects

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. Under anticipated conditions of normal use these products are not usually considered as a skin hazard or a hazard to the eyes. Excessive dust (which is not present under normal conditions of use), may cause skin irritation, or irritation to the upper respiratory tract, if inhaled. Product or dust particles can cause irritation to the eyes. There is no evidence of mutagenic potential, carcinogenicity or reproductive toxicity.

11.2 Other information

Ingestion: swallowing particles of these products can create a false feeling of satiety (feeling full).

12. Ecological information

12.1 Toxicity

The product has no known toxicity effect to aquatic organisms.

12.2 Persistence and degradability

The product is not bio degradable and can be mechanically separated.

12.3 Bio-accumulative potential

The product has no potential for bio-accumulation.

12.4 Mobility in soil

Insoluble in water. The product is predicted to have very low mobility in soil.

12.5 Results of PBT and vPvB assessment

Not classified as PBT (Persistent, Bio-accumulative and Toxic). Not classified as vPvB (very Persistent, very Bio-accumulative).

12.6 Other adverse effects

None.

12.7 Additional information

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Further ecological and environmental information is available in our Life Cycle Assessment.

13. Disposal considerations

13.1 Waste treatment methods

Products	The product should be disposed of in compliance with local and national legislation. Waste management schemes (recovery, recycling reuse) should be promoted.
Packaging	The packaging should be disposed of in compliance with local and national legislation.

14. Transportation information

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 Marpol and the IBC Code

Not applicable.

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15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Authorizations and/or restrictions on use:

EU REACH: Annex XVII	The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.
Generic information on the identity of the polymers	Polymers of propylene or of other olefins [3902]
Concentration of Synthetic Polymer Microparticles	The supplied form of this product is considered as 90-100% synthetic polymer microparticles.

For instructions for use and disposal explaining to industrial downstream users how to prevent releases of synthetic polymer microparticles to the environment, see Sections 6 and 13.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required.

16. Other information

Please note that ARPRO grades are not classified as hazardous products according to classification criteria of the Regulation (EC) No 1272/2008 (CLP), therefore there is no legal requirement to provide a safety data sheet for these products, and it is provided as a courtesy to customers.

Revision 19 of this Safety Data Sheet has been prepared to reflect new statements into section 15.

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