According to REACH regulation (EC) n° 1907/2006 - n° 2015/830

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name	NAFILean Stiff
Chemical Name	Mixture
Product Type	Solid. Pellets.

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

Identified uses

Identified uses	For industrial conversion as a raw material for manufacture of articles or goods

1.3. Details of the supplier of the safety data sheet

Company	Automotive Performance Materials APM Rue des Prés Potets – Parc des Cortots 21121 Fontaine les Dijon
Phone number	+33(0)3 80 53 34 01
Fax number	+33(0)3 80 57 31 30
E-mail	contact@apm-planet.com *www.apm-planet.com*

1.4. EMERGENCY TELEPHONE NUMBER

France - ORFILA: **+ 33 (0)1 45 42 59 59**

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments
Not a hazardous

2.2. Label elements

According to EC directives or the corresponding national regulations the product does not have to be labelled.

2.3. Other hazards

Skin contact with hot material, may cause severe thermal burns.
Slipping hazard.
See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance
Not applicable

3.2. Mixture

Ingredient Name	N° CAS
Polypropylene	9003-07-0
Natural fibres	N/A
Additives *(Chemical identity and/or percentage of composition is being withheld as a trade secret)*	Trade Secret

Hazardous components
Not known.

4. FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

Inhalation Remove person to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if symptoms occur.

Ingestion In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Do NOT induce vomiting unless directed to do so by medical personnel.

Skin contact Heated material can cause thermal burns.
Wash off with plenty of water. Seek first aid or medical attention as needed. If molten material comes in contact with the skin, do not apply ice but cool under ice water or running stream of water. DO NOT attempt to remove the material from skin. Removal could result in severe tissue damage. Seek medical attention immediately. Suitable emergency safety shower facility should be immediately available.

Eye contact Flush eyes thoroughly with water for several minutes holding the eyelids open. If effects occur, consult a physician, preferably an ophthalmologist.
In case of eye contact with hot material, cool immediately with plenty of water and obtain immediate medical treatment.

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

Inhalation	No data available.
Skin contact	Hot material may cause serious thermal burns to skin.
Eye contact	Hot material may cause serious thermal burns to eyes.
Ingestion	Choking hazard

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

No additional information available.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Fire will produce dense black smoke. Decomposition products may include the following materials: carbon dioxide, carbon monoxide, Aldehydes, Ketones or/and Hydrocarbons. Exposure to decomposition products may be hazardous to health.

5.3. Advice for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves).

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Spilled material may cause a slipping hazard. Use appropriate safety equipment.
For additional information, refer to Section 8, Exposure Controls and Personal Protection.

6.2. Environmental precautions

Prevent any material from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

6.3. Methods and material for containment and cleaning up

On land Retrieve the product by mechanical means (sweeping/vacuuming).

On water Material is insoluble; collect and contain as any solid.
Notify authorities if product enters sewers or public waters.

6.4 Reference to other sections
See section 13 for Disposal Consideration.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Ensure good ventilation of the work station. Wear personal protective equipment. Do not get molten material in eyes, on skin or clothing. Avoid breathing process fumes. See Section 8, Exposure controls and personal protection.

Spilled material may result in a slipping hazard.

Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static discharge.

Hygiene measures
Do not eat, drink or smoke when using this product. Always wash hands before breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10), food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed. Do not store in unlabelled containers.
Use appropriate containment to avoid environmental contamination.

7.3. Specific end use(s)
See the technical data sheet on this product for further information.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters
Occupational exposure limits
At this time, the constituents have no known exposure limits.

8.2. Exposure controls

Engineering controls	Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.
Hand protection	Chemical protective gloves should not be needed when handling this material. Use gloves with insulation for thermal protection (EN 407), when needed.
Eye protection	Use safety glasses (with side shields) in accordance with standard EN166.
Skin protection	Wear suitable protective clothing. Safety footwear.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Other information	In case of risk of overexposure to dust, vapors or fumes (during product processing), it is recommended that a local exhaust system is placed above the conversion equipment (a fume hood) and the working area must be properly ventilated.
Environmental exposure controls	See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Pellets
Color	Light brown to dark brown
Odor	Light vegetable odor
Odor threshold	No data available
pH	No data available
Melting point	170 – 210 °C
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Evaporation Rate	Not applicable

Flammability (solid, gas)	Not applicable
Vapor pressure	Not applicable
Relative density at 20 °C	0.96 – 1.00 g/cm3
Bulk density	0.520– 0.600 g/cm3
Water solubility	Insoluble
Viscosity, kinematic	Not applicable
Viscosity, dynamic	No data available
Explosion limits	No data available

9.2. Other information
No data available.

10. STABILITY & REACTIVITY

10.1. Reactivity
No data available

10.2. Chemical stability
This mixture is stable under the recommended handling and storage conditions (section 7).

10.3. Possibility of hazardous reactions
No data available.

10.4. Conditions to avoid
Avoid:
- exposure to heat, flame, sparks
- dust formation (dusts can form an explosive mixture with air)
- the build-up of electrostatic charge
- direct sunlight
- humidity

10.5. Incompatible materials
None known

10.6. Hazardous decomposition products

Decomposition products	At temperatures above 250°C it decomposes emitting hydrocarbons
Complete combustion products	CO2, and H2O
Incomplete combustion products	CO, aldehydes, ketones, hydrocarbons

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity	No known significant effects or critical hazards
Serious eye damage/irritation	No known significant effects or critical hazards

Respiratory or skin sensitization	No known significant effects or critical hazards
Germ cell mutagenicity	No known significant effects or critical hazards
Carcinogenicity	No known significant effects or critical hazards
Reproductive toxicity	No known significant effects or critical hazards

Over-exposure signs/symptoms

Skin	No data available
Ingestion	No data available
Inhalation	No data available
Eyes	No data available

12. ECOLOGICAL INFORMATION

12.1. Toxicity
No data available

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This mixture has not been assessed for persistence, bioaccumulation and toxicity (PBT).

12.6. Other adverse effects
No data available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
For uncontaminated material the disposal options include mechanical and chemical recycling or energy recovery. In some countries landfill is also allowed. For contaminated material the options remain the same, although additional evaluation is required. For all countries the disposal methods must be in compliance with national and provincial laws and any municipal or local by-laws. All disposal methods must be in compliance with the EU framework Directives 2008/98/EC and their subsequent adaptations, as implemented in National Laws and Regulations, as well as EU Directives dealing with priority waste streams. Transboundary shipment of wastes must be in compliance with Regulation (EC) No 1013/2006 and subsequent modifications.

14. TRANSPORT INFORMATION

14.1. – 14.5.
Exempt from transport classification and labelling.

ADR	Not classified as dangerous
RID	Not classified as dangerous
ICAO/IATA	Not classified as dangerous
IMDG	Not classified as dangerous

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not classified

15. REGULATORY INFORMATION

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

REACh Regulation (EC) No 1907/2006
This product contains only components that have been either pre-registered , are exempt from registration or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH)., Polymers are exempted from registration under REACH. All relevant starting materials and additives have been either pre-registered, registered, or are exempt from registration to Regulation (EC) No. 1907/2006 (REACH)., The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. . It is the buyer´s/user´s responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

15.2 Chemical safety assessment
Not applicable

16. OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.
The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.
It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.
The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Abbreviations

ADR	European agreement concerning the international carriage of dangerous goods by Road.
CAS	Chemical Abstracts Service
IMDG	International Maritime Dangerous Goods.
IATA	International Air Transport Association.
ICAO	International Civil Aviation Organisation
RID	Regulations concerning the International carriage of Dangerous goods by rail.
WGK	Wassergefahrdungsklasse (Water Hazard Class).
PBT	Persistantes, Bioaccumulables, Toxiques
REACH	Enregistrement, Evaluation, Autorisation et Restriction des Substances Chimiques
vPvB	Very persistent, very bioaccumulable