

Safety Data Sheet

PEBAX® 33 MED SERIES

Publication: 2023-01-20

Document type	Name	Last data update	Version	Page
Safety data sheets	PEBAX® 33 MED SERIES	2023-01-19	1.0	<u>3</u>
Inventories	Inventory	2023-01-19	2.0	11



SAFETY DATA SHEET

Compiled in accordance with REACH Regulation (EC) N° 1907/2006, as amended by UK REACH Regulations SI 2019/758

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SDS No.: 003885-001 (Version 1.0) Date 19.01.2023

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Generic Safety Data Sheet

1.1. Identification of the product

Identification of the mixture: PEBAX® 33 MED SERIES

Grades: 1 PEBAX® 6333 SA 01 MED / 1 PEBAX® 7033 SA 01 MED / 1 PEBAX® 7233 SA 01 MED / 1 PEBAX® 7433 SA 01 MED / 2 PEBAX® 2533 SA 01 MED / 2 PEBAX® 3533 SA 01 MED / 2 PEBAX® 4033 SA 01 MED / 2 PEBAX® 4533 SA 01 MED / PEBAX® 5533 SA 01 MED / PEBAX® 5533 SA 01 MED / 2 PEBAX® 4533 SA 01 MED / PEBAX® 5533 SA 01 MED / PEBAX® 5533 SA 01 MED / 2 PEBAX® 4533 SA 01 MED / PEBAX® 5533 SA 01 MED / PEBAX® 5533 SA 01 MED / 2 PEBAX® 4533 SA 01 MED / 2 PEBAX® 5533 SA 01 MED / 2 PEBAX® 4533 SA 01 MED / 2 PEBAX® 5533 SA 01 MED / 2 PEBAX® 5533 SA 01 MED / 2 PEBAX® 4533 SA 01 MED / 2 PEBAX® 5533 SA 01 ME

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

Use of the Substance/Mixture : Mouldings and Extrusion

1.3. Details of the supplier of the safety data sheet

Supplier ARKEMA

Specialty Polyamides 420 rue d'Estienne d'Orves 92705 Colombes Cedex, FRANCE Telephone: +33 (0)1 49 00 80 80 Telefax: +33 (0)1 49 00 83 96

E-mail address: pars-drp-fds@arkema.com

http://www.arkema.com

1.4. Emergency telephone number

+ 33 1 49 00 77 77

European emergency phone number: 112

+44 870 8200418 or +44 2038073798 (CHEMTREC UK - Emergency phone numbers)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008, as amended for Great Britain):

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Label elements (REGULATION (EC) No 1272/2008, as amended for Great Britain):

Additional information: No label necessary for this product.

2.3. Other hazards

Potential health effects:

Acute exposure: Contact with the product, when handled at high temperatures, can cause serious burns.

Inhalation: Inhalation of vapours due to thermal decomposition: Risk of irritation of respiratory system Toxic effects cannot be excluded

Dust inhalation: Risk of irritation of respiratory system Possible irritation of respiratory system (by dust inhalation).

Skin contact: At high temperature, products of thermal decomposition can be irritating to skin Eye contact: At high temperature, products of thermal decomposition can be irritating to eyes

Environmental Effects:

Inert polymer not biodegradable on the basis of its structure

Physical and chemical hazards:

Thermal decomposition giving toxic and corrosive products.

Decomposition products: See chapter 10

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Other

Results of PBT and vPvB assessment: Based on the available information, it is not possible to conclude on PBT and vPvB criteria according to REACH regulation, annex XIII.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical nature of the mixture1:

Polyether block amides

SA: Presence of stabilizer preventing thermo-oxidation

- 1: See chapter 14 for Proper Shipping Name
- ²:See the text of the regulation for applicable exceptions or provisions -

SECTION 4: FIRST AID MEASURES

4.1. Description of necessary first-aid measures:

General advice:

No hazards which require special first aid measures.

Inhalation

Inhalation of vapours due to decomposition of product: Move to fresh air. Oxygen or artificial respiration if needed. In case of persistent problems: Consult a physician.

Skin contact:

Wash abundantly with soap and water.

On contact with hot product: Cool skin rapidly with cold water after contact with molten material. Remove product with vegetable oil or paraffin. In case of adhesion, do not try to remove the product. Treat the affected areas as thermal burns. Consult a physician.

Eye contact:

Dusts: Wash well-open eyes immediately, abundantly and thoroughly with water. Remove particles remaining under the eyelids. If irritation persists, consult an ophthalmologist.

On contact with hot product: Cool eyes rapidly with cold water after contact with molten polymer. Consult an ophthalmologist immediately.

Ingestion:

In case of problems : Consult a doctor.

Protection of first-aiders:

Dusts: In case of insufficient ventilation, wear suitable respiratory equipment.

4.2. Most important symptoms/effects, acute and delayed: No data available.

4.3. Indication of any immediate medical attention and special treatment needed: No data available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Water spray, Foam, Carbon dioxide (CO2)

5.2. Special hazards arising from the substance or mixture:

300 - 350 °C: possible formation of:

Monomer and oligomer (white fumes)

Temperature exceeding 350°C:

Thermal decomposition giving toxic and corrosive products:

Carbon monoxide, Ammonia, Amino derivatives

Temperature exceeding 500 °C:

Formation of toxic products through combustion:

Carbon oxides, Hydrogen cyanide (hydrocyanic acid), (traces)

5.3. Advice for firefighters:

Specific methods:

Ensure a system for the rapid emptying of containers. In case of fire nearby, remove the bags.

Special protective actions for fire-fighters:

Wear self-contained breathing apparatus and protective suit.

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6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Remove all sources of ignition. Avoid contact with skin and eyes and inhalation of dust. Wear a dust mask and safety glasses/goggles if necessary. In case of insufficient ventilation, wear suitable respiratory equipment.

6.2. Environmental precautions:

Do not release into the environment. Do not let product enter drains.

6.3. Methods and materials for containment and cleaning up:

Recovery:

Recover the product. Shovel into suitable container for disposal. Sweep up to prevent slipping hazard.

Elimination:

Destroy the product by incineration (in accordance with local and national regulations).

6.4. Reference to other sections: None.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Technical measures/Precautions:

Storage and handling precautions applicable to products: Solid (pellets).

Ensure ventilation of work areas and extraction of dust or vapours likely to be given off during conversion operations (product handled when hot). Provide showers, eye-baths. Provide water supplies near the point of use.

Safe handling advice:

At all stages of the operation, do not exceed the temperature at which decomposition into toxic and corrosive products will occur. Avoid creating dust. In case of dust formation, wear a dust mask. Avoid accumulation of static charges during transfers in metallic systems. Prohibit all sources of sparks and ignition - Do not smoke. Keep well away from naked flames. In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures:

Avoid contact with the skin and the eyes. Avoid breathing dust. Product handled when hot: Avoid exposure to vapour. When using do not eat, drink or smoke.

Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities:

Store away from moisture and heat to maintain the technical properties of the product. Remove all sources of ignition. Provide earthing and safe electrical equipment.

Do not store above: 60 °C

Incompatible products:

Strong acids Strong oxidizing agents

Packaging material:

Recommended: Triplex bags (paper, aluminium, polyethylene), Triplex bags (polyethylene - aluminium - polyethylene)

7.3. Specific end use(s): None.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Exposure Limit Values Not relevant

Derived No Effect Level (DNEL):

This information is not required.

Predicted No Effect Concentration:

This information is not required.

8.2. Exposure controls:

General protective measures: Ensure ventilation of work areas and extraction of dust or vapours likely to be given off during

conversion operations (product handled when hot).

Personal protective equipment:

Respiratory protection: Product handled when hot: In case of insufficient ventilation, wear suitable respiratory

equipment.

In the case of hazardous fumes, wear self contained breathing apparatus.

Hand protection: Gloves (product handled when hot)

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Eye/face protection: Safety glasses/goggles (product handled in molten state) - Wear face-shield and protective

clothing in case of problems during processing

Skin and body protection: Boots (product handled in molten state)

Environmental exposure controls: See chapter 6

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:

Physical state (20°C): solid Form: granules

Colour: colourless, or, natural colour

Odour: none Olfactory threshold: Not relevant pH: Not applicable Melting point/range: 130 - 175 °C

Boiling point/boiling range: Not applicable (decomposes on heating)

Flash point: Not applicable Evaporation rate: Not relevant

Flammability (solid, gas):

Flammability: Not applicable Lower flammable limit : Not applicable Upper flammable limit: Not applicable Vapour pressure: Not applicable Vapour density: Not relevant

Relative vapour density: Not applicable Reference substance: Air=1

Relative density (Water=1): 1 - 1.01

Bulk density: 550 - 650 kg/m3

Water solubility: insoluble, (on the basis of its structure) at 20 °C

Partition coefficient: n-octanol/water: No data available.

Auto-ignition temperature: 370 - 450 °C (Standard ASTM D 1929-77 (B))

300 - 350 °C Decomposition temperature: Viscosity, kinematic: Not applicable Viscosity, dynamic: Not applicable

Explosive properties:

Not relevant (due to physical form) Explosivity:

Oxidizing properties: Not relevant (due to its chemical structure)

9.2. Other information:

Solubility in other solvents: Soluble in: PHENOL, METACRESOL, BENZYL ALCOHOL(when hot)

Formic acid (concentrate), Sulphuric acid (concentrate)

METHYLENE CHLORIDE, partly soluble

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: No data available.

10.2. Chemical stability:

The product is stable under normal handling and storage conditions.

10.3. Possibility of hazardous reactions:

None under normal conditions of use.

10.4. Conditions to avoid:

Temperatures above 60 °C

(to maintain the technical properties of the product).

Remove all sources of ignition. Avoid storing in moist and warm conditions.

10.5. Incompatible materials to avoid:

Strong acids and oxidizing agents

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10.6. Hazardous decomposition products:

Thermal decomposition:

Decomposition temperature: 300 - 350 °C 300 - 350 °C: possible formation of: Monomer and oligomer (white fumes) Temperature exceeding 350°C:

Thermal decomposition giving toxic and corrosive products:

Carbon monoxide, Ammonia, Amino derivatives

Temperature exceeding 500 °C:

Formation of toxic products through combustion:

Carbon oxides, Hydrogen cyanide (hydrocyanic acid), (traces)

SECTION 11: TOXICOLOGICAL INFORMATION

All available data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

11.1. Information on toxicological effects:

Acute toxicity:

Inhalation:

Inhalation of vapours due to thermal decomposition:, Risk of irritation of respiratory system, Toxic

effects cannot be excluded

Ingestion: Polymer: According to its composition, this product should not be harmful in normal conditions

of use

Dermal: Polymer: According to its composition, this product should not be harmful in normal

conditions of use

Local effects (Corrosion / Irritation / Serious eye damage):

Skin contact: Polymer: According to its composition, can be considered as Slightly or not irritating to skin

Contact with the product, when handled at high temperatures, can cause serious burns.

At high temperature, products of thermal decomposition can be irritating to skin

Eye contact: Polymer: According to its composition, can be considered as Slightly or not irritating to eyes

Contact with the product, when handled at high temperatures, can cause serious burns. At high temperature, products of thermal decomposition can be irritating to eyes

Respiratory or skin sensitisation:

Inhalation: No data available.

Skin contact: According to its composition, can be considered as Not a skin sensitizer No reported effect on

man in industry

CMR effects:

Mutagenicity: Polymer: According to its composition, this product should not be harmful in normal conditions

of use Contains no ingredient listed as a mutagen

Carcinogenicity: Polymer: According to its composition, this product should not be harmful in normal

conditions of use

Reproductive toxicity:

Fertility: Polymer: According to its composition, this product should not be harmful in normal conditions

of use

Foetal development: Polymer: According to its composition, this product should not be harmful in normal conditions

of use

Specific target organ toxicity : Single exposure :

Inhalation:

Dust inhalation: , Risk of irritation of respiratory system

Repeated exposure: Polymer: According to its composition, this product should not be harmful in normal

conditions of use

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Aspiration hazard:

Not applicable

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicology Assessment: All available and relevant data on this product and/or the components quoted in section 3 and/or the

analogue substances/metabolites have been taken into account for the hazard assessment.

12.1. Toxicity:

Fish: Based on the available information, it is not possible to conclude on the hazard potential of this

product.

Aquatic invertebrates: Based on the available information, it is not possible to conclude on the hazard potential of

this product.

Aquatic plants: Based on the available information, it is not possible to conclude on the hazard potential of this

product.

12.2. Persistence and degradability:

Biodegradation (In water): Inert polymer Not biodegradable on the basis of its structure

12.3. Bioaccumulative potential:

Bioaccumulation: Based on the available information, it is not possible to conclude on the hazard potential of this

product.

12.4. Mobility in soil - Distribution among environmental compartments:

Vapor pressure: Not applicable,

12.5. Results of PBT and vPvB assessment :

Based on the available information, it is not possible to conclude on PBT and vPvB criteria according to REACH regulation, annex XIII.

12.6. Other adverse effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

Disposal of product: Recycle if possible. Destroy the product by incineration (in accordance with local and national

regulations).

Disposal of packaging: Recycle if possible. Destroy packaging by incineration at an approved waste disposal site (in

accordance with local and national regulations).

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: REGULATORY INFORMATION

Safety data sheets: accordance with Annex II of Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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

Major Accident Hazard Legislation Not applicable

15.2. Chemical safety assessment:

This information is not required.

INVENTORIES:

For the inventory details, see Appendix.

SECTION 16: OTHER INFORMATION

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Update:

Safety datasheet sections which have been updated:	Type:		
General update of Safety Data Sheet.			

Thesaurus:

NOAEL : No Observed Adverse Effect Level (NOAEL) LOAEL : Lowest Observed Adverse Effect Level (LOAEL)

bw: Body weight food : oral feed dw: Dry weight

vPvB: very Persistent and very Bioaccumulative PBT: Persistent, Bioaccumulative and Toxic

This information applies to the PRODUCT AS SUCH and conforming to specifications of ARKEMA. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).



INVENTORIES DOCUMENT

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Name	REACH (EU/EEA)	TSCA (USA)	DSL (Canada)	IECSC (China)	ENCS (Japan)	ISHL (Japan)	KECI (Korea)	PICCS (Philippines)	AIIC (Australia)	NZIOC (New Zealand)	TCSI (Taiwan)
1 PEBAX® 6333 SA 01 MED	Listed or exempted (A)	(B)	(F)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)					
1 PEBAX® 7033 SA 01 MED	Listed or exempted (A)	(B)	(F)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)	(M)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)
1 PEBAX® 7233 SA 01 MED	Listed or exempted (A)	(B)	(F)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)	(M)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)
1 PEBAX® 7433 SA 01 MED	Listed or exempted (A)	(B)	(F)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)					
2 PEBAX® 2533 SA 01 MED	Listed or exempted (A)	(B)	(F)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)					
2 PEBAX® 3533 SA 01 MED	Listed or exempted (A)	(B)	(F)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)	(M)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)
2 PEBAX® 4033 SA 01 MED	Listed or exempted (A)	(B)	(F)	Listed or exempted (D)	(M)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)			

registered. If purchasing from a legal entity established outside the EEA, please contact your local representative for more information.				
(C) This product contains one or several components that are not on the TSCA inventory	(D) All components of this product are listed or exempted			
(E) Not all components of this product are listed or exempted	(F) All components of this product are on the Canadian DSL			
	(H) This product contains one or several components that are not on the Canadian DSL nor NDSL lists.			
	(J) This product contains at least one component covered by a polymer exemption available only for our company - Please consult us for more information			
	(M) The mixture contains a polymer. All the monomers for this polymer & other substances are listed on the inventory - Please consult us for more information.			
(O) Based on alternate CAS number(s).	(P) The TSCA Inventory status of the product has not been evaluated.			

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2 PEBAX® 4533 SA 01 MED	Listed or exempted (A)	(B)	(F)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)	(M)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)
PEBAX® 5533 SA 01 MED	Listed or exempted (A)	(B)	(F)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)	(M)	Listed or exempted (D)	Listed or exempted (D)	Listed or exempted (D)

(A) In the event of purchase from an Arkema legal entity based in the European Economic Area (EEA), it is established that this product complies with the registration provisions of REACH Regulation (EC) No. 1907/2006, given that all of its components are excluded, exempted and / or registered. If purchasing from a legal entity established outside the EEA, please contact your local representative for more information.	(B) The components of this product are all on the TSCA Inventory					
(C) This product contains one or several components that are not on the TSCA inventory	(D) All components of this product are listed or exempted					
(E) Not all components of this product are listed or exempted	(F) All components of this product are on the Canadian DSL					
(G) This product contains one or several components listed in the Canadian NDSL list. All other components are on the DSL list.	(H) This product contains one or several components that are not on the Canadian DSL nor NDSL lists.					
(I) This product contains at least one component covered by an exemption available only for our company - Please consult us for more information	(J) This product contains at least one component covered by a polymer exemption available only for our company - Please consult us for more information					
(K) or (N) Consult ARKEMA	(M) The mixture contains a polymer. All the monomers for this polymer & other substances are listed on the inventory - Please consult us for more information.					
(O) Based on alternate CAS number(s).	(P) The TSCA Inventory status of the product has not been evaluated.					
In case of empty inver	tory, Consult ARKEMA					
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