

SAFETY DATA SHEET

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SDS No. : 00875	Version : 6	Date : 10/06/2004
		Cancel and replace: 01/04/2004

01 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

NAME OF THE PREPARATION	PEBAX 33 SERIES
RECOMMENDED USES	Mouldings Extrusion
SDS No	00875
SUPPLIER	ARKEMA D. POLYMERES TECHNIQUES Cours Michelet - La Défense 10 92091 PARIS LA DEFENSE CEDEX FRANCE Téléphone : 01 49 00 80 80 Télécopie : 01 49 00 83 96
Emergency telephone number (*)	44 1865 407 333 (*)

02 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NATURE OF THE PREPARATION	POLYETHER BLOCK AMIDES (various grades) SA : PRESENCE OF : stabilizer preventing thermo-oxidation SN / SW : PRESENCE OF : stabilizer preventing thermo-oxidation and photo-oxidation by sunlight (effects of weather) SD : PRESENCE OF : stabilizer preventing thermo-oxidation and photo-oxidation by sunlight (effects of weather) and Mould release agent Possible presence of pigments
EINECS GRADES (*)	Conforms G MX 1205 SN 03 - G MX 1940 SN 03 - G 7033 SN 02 (*) 2533 - 3533 - 4033 - 5533 - 6333 - 7033 - 7233 MX 1205 - MX 1217 - MX 1411 - MX 1438 - MX 1717 - MX 1721 - MX 1722 - MX 1725 MX 1726 - MX 1727 - MX 1745 - MX 1900 - MX 1910 MX 1508-40LT

03 - HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS	-
PHYSICAL AND CHEMICAL HAZARDS	Thermal decomposition giving toxic products
SPECIFIC HAZARDS / EC	Preparation not classified as dangerous

04 - FIRST AID MEASURES

INHALATION	Dust inhalation : Move to fresh air In case of persistent problems : consult a doctor Inhalation of vapours due to thermal decomposition : Move to fresh air Oxygen or artificial respiration if needed In case of persistent problems :
SKIN CONTACT	Consult a doctor Wash immediately, abundantly and thoroughly with water On contact with hot product :

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EYE CONTACT	<p>Cool skin rapidly with cold water after contact with molten polymer In case of adhesion, do not try to remove the product Treat the affected areas as thermal burns Consult a doctor</p>
INGESTION	<p>Wash immediately, abundantly and thoroughly with water 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 In case of problems, consult a doctor</p>

05 - FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Water spray Foam
SPECIFIC HAZARDS	Carbon dioxide (CO2) Temperature above 300 °C : Thermal decomposition giving toxic products : Possible formation of : Carbon monoxide Ammonia Amino derivatives
SPECIFIC METHODS	Temperature above 500 °C : Formation of toxic products through combustion : Carbon oxides Hydrogen cyanide (hydrocyanic acid) (traces)
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS	Ensure a system for the rapid emptying of containers In case of fire nearby, remove the bags In case of fire, wear a self-contained breathing apparatus

06 - ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION	Sweep up to prevent hazard of slipping Wear a dust mask and safety glasses/goggles if necessary Prohibit contact with skin and inhalation of dust
ENVIRONMENTAL PROTECTION	Do not release into the environment Do not let the product enter into drains
METHODS FOR CLEANING UP	-
Recovery	Recover the product
Disposal	Sweep up to prevent hazard of slipping (in accordance with local and national regulations) Destroy the product by incineration at an approved waste disposal site

07 - HANDLING AND STORAGE

HANDLING	-
Technical measures/Precautions	Storage and handling precautions applicable to products : SOLID (pellets) Ensure appropriate exhaust and ventilation at machinery Provide water point nearby
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 accumulation of static charges during transfers in metallic system

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STORAGE Technical measures/Storage conditions	Avoid the possible formation of dust Prohibit sources of sparks and ignition - Do not smoke Keep well away from naked flames - Store away from moisture and heat to maintain the technical properties of the product Keep at temperatures below 60 °C Remove all sources of ignition Provide electrical earthing of equipment and electrical equipment usable in explosive atmospheres
PACKAGING MATERIALS Recommended	- Triplex bags (paper, aluminium, polyethylene)

08 - EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE PROVISIONS	Ensure ventilation of work areas and extraction of dust or vapours likely to be given off during conversion operations
CONTROL PARAMETERS Exposure limits	- Inhalable dusts : FRANCE 1999 : VME= 10 mg/m ³ USA-ACGIH 2004 : TLV-TWA = 10 mg/m ³ Respirable dusts : FRANCE 1999 : VME = 5 mg/m ³ USA-ACGIH 2004 : TLV-TWA = 3 mg/m ³
PERSONAL PROTECTION EQUIPMENT Respiratory protection	- In case of insufficient ventilation, wear suitable respiratory equipment (product handled when hot) Wear a self-contained breathing apparatus in case of thermal decomposition of the product
Hand protection	Gloves (product handled in molten state)
Eye 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)
Specific hygiene measures	Prohibit contact with skin and eyes and inhalation of vapours (product handled in molten state)

09 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE (20°C)	Solid (pellets)
COLOUR	Colourless or Mass coloured
ODOUR	None
MELTING POINT/RANGE	(130 - 175) °C
DECOMPOSITION TEMPERATURE	(300 - 350) °C
AUTOIGNITION TEMPERATURE	(370 - 450) °C
BULK DENSITY	Standard : ASTM D 1929-77 (B) 550 - 650 kg/m ³
SOLUBILITY	-
WATER	Insoluble (20°C)
Solvents	Soluble in : PHENOL, METACRESOL, BENZYL ALCOHOL (when hot) Formic acid (concentrate), Sulphuric acid (concentrate) Partly soluble in :
OTHER DATA	METHYLENE CHLORIDE Calorific value : 8130 - 8740 Kc/kg

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(Standard : NF M 03 0005)

10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID

Store away from moisture and heat to maintain the technical properties of the product

Keep at temperatures below 60°C

Remove all sources of ignition

HAZARDOUS DECOMPOSITION PRODUCTS

Temperatures above 300 °C :

Thermal decomposition giving toxic products :

Possible formation of :

Carbon monoxide, ammonia, amine derivatives

Temperature above 500°C :

Formation of toxic products through combustion :

Carbon oxides

Hydrogen cyanide (hydrocyanic acid) (traces)

FURTHER INFORMATION

The product is stable under normal handling and storage conditions

11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Ingestion

According to its composition, can be considered as :

Slightly or not harmful by ingestion

Skin-contact

Slightly harmful in contact with skin

LOCAL EFFECTS

Inhalation

No data available on this product to our knowledge

According to its composition :

Dust inhalation :

Risk of irritation of respiratory system

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

Skin-contact

According to its composition, can be considered as :

Slightly or not irritating to skin

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

Eye-contact

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

According to its composition, can be considered as :

Slightly or not irritating to eyes

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

CHRONIC TOXICITY

Polymer :

No particular problems for man

SPECIFIC EFFECTS

Polymer :

No particular problems for man

12 - ECOLOGICAL INFORMATION

PERSISTENCE/DEGRADABILITY

In water

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Inert polymer

Not biodegradable on the basis of its structure

13 - DISPOSAL CONSIDERATIONS

DISPOSAL O

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Recycle if possible

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DISPOSAL OF PACKAGING

Or
 Destroy the product by incineration at an approved waste disposal site
 (in accordance with local and national regulations)
 Recycle if possible
 Or
 Destroy packaging by incineration at an approved waste disposal site

14 - TRANSPORT INFORMATION

Technical consignment name :	See Section : 2
ADR/RID	Not regulated
ADN/ADNR	Not regulated
IMDG	Not regulated
IATA	Not regulated

Consult ARKEMA's safety department for any further information

15 - REGULATORY INFORMATION

EEC DIRECTIVE SAFETY DATA SHEETS	- D. 91/155/EEC amended by D.93/112/EEC and D. 2001/58/CE: Dangerous substances and preparations
EC CLASSIFICATION / LABELLING DANGEROUS PREPARATIONS	- D. 1999/45/EC amended by D. 2001/60/CE Not classified as dangerous
INVENTORIES	EINECS (EU) : conforms

16 - OTHER INFORMATION

FURTHER INFORMATION -

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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. However the revision of
 some data is in progress
 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

The (*) indicate the changes made with respect to the previous version

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