

# **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

## 1.1 Product identifier

Product Name RAMAPET

Product Identification Name N1(S), N180, R1, R180(S), R180, R182(C), R182(C), PlantPET, P184, S184,

L1, W170, W176 and AH62

Name REACH Polyethylene Terephthalate (Copolyester)

CAS number Homopolymer 25038 - 59 - 9, Copolymer 24938 - 04 - 03

EC number N/AREACH number N/AMolecular Formula  $(C_{10}H_8O_4)_n$ 

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

Polyethylene terephthalate (PET) is an intermediate plastic used for food and non - food contact packaging, bottles, films and fibers.

## 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Indorama Ventures Europe BV

Markweg 201, 3198 NB Europoort Rotterdam, The Netherlands

UAB "Orion Global Pet"

Metalo 16, LT-94102 Klaipeda Lithuania

Indorama Ventures Poland Sp. z o.o.

ul. Krzywa Góra 19, 87-805 Włocławek, Poland

Indorama Ventures Quimica S.L.U.

Poligono Industrial Guadarranque, S/N, 11360, San Roque, Cadiz, Spain.

# 1.4 Emergency telephone number 24h

For emergency health, safety and environmental information telephone:

Rotterdam +31 181285472

Klaipeda +37 046 300749 extension 273

Włocławek +48 54 416 64 29 San Rogue +34 956671070

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Polyethylene terephthalate (PET) is a polymer is not classified as hazardous according to Regulation (EC) 1272/2008 (CLP).



#### 2.2 Label elements

Labeling not required according to Regulation (EC) No 1272/2008 (CLP).

#### 2.3 Other hazards

PET is not categorized as persistent, bio-accumulative or toxic (PBT) according to Regulation (EC) No. 1907/2006, Annex XIII.

PET is not very persistent or very bio-accumulative (vPvB) according to Regulation (EC) No. 1907/2006, Annex XIII.

# **SECTION 3: Composition/information on ingredients**

Substance Mono-constituent substance

Mixtures Not applicable

Product name	CAS No	REACH No	Content	Classification according to Regulation (EC) No. 1272/2008 (CLP)
Polyethylene terephthalate (PET)	25038-59-9	N/A	100 %	Not classified as hazardous

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

# **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact:** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion:** Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.

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

No known significant effects or critical hazards but if necessary treat symptomatically.



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

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

**Suitable**: In case of fire, use water spray (fog), foam, dry chemical or CO2.

**Not suitable**: Do not use water jet.

# 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture:** No specific fire or explosion hazard.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: carbon dioxide, carbon monoxide.

# **5.3** Advice for firefighters

# Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

# **Special protective equipment for fire-fighters**

Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

#### **Fire-fighting measures**

Use self-contained breathing apparatus if respirable dust and/or fumes occur. Use water spray to cool and disperse vapors and protect personnel.

## **SECTION 6: Accidental Release Measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

# For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### 6.2 Environmental

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### 6.3 Methods and materials for containment and cleaning up

**Small spill:** Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill: Move containers from spill area. Prevent entry into sewers, water courses, basements or



confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

#### 6.4 Reference to other

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and Storage**

# 7.1 Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8).

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 7.3 Specific end use(s)

**Recommendations:** Not available.

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

Occupational exposure limits: No exposure limit value known.

**Recommended monitoring procedures:** If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

During processing of PET small amount of aldehydes are generated. The most well-known is acetaldehyde,



AA (CAS 75-07-0), also small amounts of formaldehyde, FA (CAS 50-00-0) are formed.

In its opinion, published in September 2016, the Committee for Risk Assessment (RAC) adopted a harmonized classification and labelling at EU level for acetaldehyde; ethanal, EC Number: 200-836-8, CAS Number: 75-07-0, as in their view, there is sufficient data to categorize acetaldehyde as carcinogen 1B. Customers are advised to check exposure to workers and apply current workplace exposure limits. There are workplace exposure limits for aldehydes and customers are advised to ensure they use the appropriate measures to their workplace. Customers should continue to monitor and record exposures on a regular basis and in addition take measures on ventilation if required. Exposure limits can be subjected to change following EU and National law. A considered risk assessment might be required when processing PET

Derived effect levels: No DELs available.

**Predicted effect concentrations:** No PECs available.

#### 8.2 Exposure controls

**Appropriate engineering controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

# **Individual protection measures**

**Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: Goggles, face shield or other full-face protection should be worn if there is a risk of direct exposure to aerosols or splashes or when material is handled hot.

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection:** Wear work clothing with long sleeves. Protective/insulated gloves.

Other skin protection: Suitable protective footwear.

**Respiratory protection:** Dust-protection mask.

**Environmental exposure controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

**Physical state** Solid under normal conditions, cylindrical and spherical pellets.

**Color** White in solid state and transparent in precursor state.

Odorless.
pH Not available.
Melting point/freezing point 240 to 265°C

## **Initial boiling point and** Not available



boiling range

Flammability (solid, gas) Slightly flammable in the presence of the following materials or

> conditions: open flames, sparks and static discharge and heat. Non-flammable in the presence of the following materials or conditions: shocks and mechanical impacts, oxidizing materials and

reducing materials.

**Burning time** Not available. Upper/lower flammability Not available.

or explosive limits

Not available.

Vapor pressure Vapor density Not available. **Density**  $1.39 - 1.4 \text{ g/cm}^3$ 

Solubility(ies) Partially soluble in the following materials: acetone.

Insoluble in the following materials: cold water and hot water.

>500°C **Auto-ignition temperature** 

**Decomposition temperature** Not available.  $0.55 - 0.85 \, dl/g$ **Viscosity (intrinsic)** 

**Explosive properties** Non-explosive in the presence of the following materials or

conditions: open flames, sparks and static discharge, heat, shocks and

mechanical impacts, oxidizing materials and reducing materials.

**Oxidizing properties** Not available.

**PET Dust Ignition Sensitivity & Explosion Severity:** 

MIE (minimum ignition Energy) 100 -200 mJ 490°C MIT (minimum ignition temperature)

**Explosion Indices** Pmax = 6.2 bar @ 750 g.m-3

(dP/dt)max = 241 bar.s-1 @ 4000 g.m-3

Kst value = 65 bar.m.s-1

St class = 1

Minimum Explosive Concentration 250 g.m-3

# **SECTION 10: Stability and reactivity**

**Reactivity:** No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability:** The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will

not occur.

Conditions to avoid: No specific data. **Incompatible materials:** No specific data.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous

decomposition products should not be produced.



# **SECTION 11: Toxicological information**

Information on toxicological effects: Not available.

Skin irritation/corrosion: Not classified. Eye damage/irritation: Not classified. Skin sensitization: Not classified. Mutagenicity: Not classified. Carcinogenicity: Not available.

**Reproductive toxicity:** No known significant effects or critical hazards.

**Teratogenicity:** Not applicable.

Specific target organ toxicity (single exposure): Not available.

Specific target organ toxicity (repeated exposure): Not available.

Aspiration hazard: Not available.

# **SECTION 12: Ecological information**

**Toxicity:** Not available.

**Persistence and degradability:** Not available. **Bioaccumulative potential:** Not available.

Mobility in soil: Not available.

**Results of PBT and vPvB assessment:** Not applicable. The substance is not PBT and vPvB.

Other adverse effects: Not applicable.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### Waste treatment methods

**Product** 

**Methods of disposal:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste:** Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

#### **Packaging**

**Methods of disposal:** The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions:** This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with



soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

**UN number:** Not hazardous for transport.

**UN proper shipping name:** Not hazardous for transport.

Transport hazard class(es): Not hazardous for transport according ADR/RID, AND, IMDG, IATA.

Packing group: Not hazardous for transport according ADR/RID, AND, IMDG, IATA.

Packing group Environmental hazards: Not hazardous for transport according ADR/RID, AND, IMDG,

IATA.

Special precautions for user: always transport in closed containers that are upright and secure. Ensure that

persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

# **SECTION 15: Regulatory information**

# **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** EU Regulation (EC) No. 1907/2006 (REACH).

International Convention for the Prevention of Pollution From Ships, MARPOL 73 in its amended form. International Maritime Dangerous Goods (Code IMDG) according to chapter VII of the International Convention for the Safety of Life at Sea, 1974.

Annex XIV - List of substances subject to authorization: None of the components are listed.

Substances of very high concern (SVHC) according to Article 59(10) the REACH Regulation: None of the components are listed.

Other EU regulations:

Seveso II Directive: Not controlled under the Seveso II Directive.

Chemical Weapon Convention List Schedules I, II & III Chemicals: Not listed.

Montreal Protocol (Annexes A, B, C, E): Not listed.

Stockholm Convention on Persistent Organic Pollutants: Not listed. Rotterdam Convention on Prior Inform Consent (PIC): Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals: Not listed.

# **International lists:**

**National inventory** 

**Australia:** This material is listed or exempted. **Canada:** This material is listed or exempted. **China:** This material is listed or exempted. **Japan:** This material is listed or exempted.

Malaysia: Not determined.

**New Zealand:** This material is listed or exempted. **Philippines:** This material is listed or exempted.

**Republic of Korea:** This material is listed or exempted.

**Taiwan:** This material is listed or exempted.

**United States**: This material is listed or exempted.



15.2 Chemical Safety Assessment: Not applicable

# **SECTION 16: Other information**

#### **Abbreviations and acronyms:**

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified as hazardous. Handle in accordance with good industrial hygiene and safety practice.

Revision date January 2021

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information. Users should make independent determinations of suitability and completeness of information from all sources to assume proper use and disposal of these materials, the safety and health of employees and customers and protection of the environment.



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

Trade name : Moplen HP500N

CAS Number: : 9003-07-0

Chemical characterization : Polypropylene Homopolymer

Chemical name : Polypropylene

Synonyms : 1-Propene, homopolymer, PP

Identified uses : Manufacture of plastic articles by injection molding, extrusion

or other conversion process.

Prohibited uses : FDA Class III medical devices; European class III medical

devices; Health Canada class IV Medical Devices;

Applications involving permanent implantation into the body;

Life-sustaining medical applications

Company Address

Basell Asia Pacific Ltd. 32/F, Dorset House Taikoo Place 979 King's Road

Quarry Bay, Hong Kong

E-mail address : product.safety@lyb.com

Responsible/issuing person

# **Company Telephone**

Product Safety +852-2585-0120 Switchboard +852-2577-3855

product.safety@lyb.com

#### 2. HAZARDS IDENTIFICATION

## **GHS-Classification**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

#### **GHS-Labeling**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

## Other hazards

If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substances**



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## Components

Chemical name	CAS-No.	Weight %	Component
	EC-No.		Туре
Polypropylene	9003-07-0	> 99.5 %	

Contains: Stabilizers

#### 4. FIRST AID MEASURES

General advice : Take proper precautions to ensure your own health and safety

before attempting rescue and providing first aid.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

In case of excessive inhalation of fumes that may be generated during heating of this material, move the person to fresh air.

Obtain medical attention.

Keep person warm, if necessary give Cardio-Pulmonary

Resuscitation (CPR)

In case of skin contact : If molten material contacts the skin, immediately flush with

large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin as this will remove the

skin.

Obtain immediate emergency medical attention if burn is deep

or extensive.

In case of eye contact : Flush eyes thoroughly with water for several minutes and seek

medical attention if discomfort persists.

: In case of eye contact with molten polymer:

Continuously flush eye(s) with cool running water for at least 15

minutes.

Beyond flushing, DO NOT attempt to remove the material

adherent to the eve(s).

Immediately seek medical attention.

If swallowed : Adverse health effects due to ingestion are not anticipated.

Notes to physician

Symptoms : Inhalation of process fumes and vapors may cause soreness in

the nose and throat and coughing.



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Hazards : Dust contact with the eyes can lead to mechanical irritation.

Molten polymer may cause thermal burns.

Treatment : Treatment of overexposure should be directed at the control of

symptoms and the clinical condition of the patient.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : SMALL FIRE:

Use dry chemical, CO2, or water spray.

: Keep away from heat and sources of ignition.

: LARGE FIRES:

: None known.

Use water spray hose nozzles from a safe location.

Unsuitable extinguishing

media

Specific hazards during fire

fighting

In case of fire hazardous decomposition products may be

produced such as:

Carbon monoxide, carbon dioxide and unburned hydrocarbons

(smoke).

The formation of hydrocarbons and aldehydes are possible in the initial stages of a fire (especially in between 400 C and 700

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Special protective equipment

for fire-fighters

: Wear approved positive pressure self-contained breathing

apparatus and firefighter protective clothing.

Further information : Combustible particulate solid, will decompose under fire

conditions.

Calorific Value: 8000 - 11000 kcal/kg

Fight fire from safe distance with hose lines or monitor nozzles. Heat from fire may melt, decompose polymer, and generate

flammable vapors.

Move containers from fire area if it can be done without risk. Evacuate immediately in the event of opening of storage container pressure relief devices or discoloration of container.

Always stay away from tanks engulfed in fire.

Do not attempt to get on top of storage containers involved in

fire.

Cool storage containers with large volumes of water even after

fire is out.



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#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Equip responders with proper protection.

Creates dangerous slipping hazard on any hard smooth

surface.

Equip emergency responders with proper personal protective

equipment (PPE)
Avoid generating dust.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces

with compressed air).

Potential combustible dust hazard.

Polymer particles create slipping hazard on hard smooth

surfaces.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for containment / Methods for cleaning up

: On land, sweep/shovel into suitable disposal containers or vacuum using equipment which avoids ignition risk.

On water, material is insoluble; collect and contain as any

solid.

All recovered material should be packaged, labeled,

transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good

engineering practices. Reclaim where possible.

#### 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling : Material is in a pellet form.

If converted to small particles during further processing, handling, or by other means, may form combustible dust

concentrations in air.

Avoid dust accumulation in enclosed space.

Use dust collection systems designed per NFPA 654 to avoid

dust accumulation.

Avoid generating dust; fine dust suspended in air and in the presence of an ignition source is a potential dust explosion

hazard.

Static discharge (spark), or other ignition sources, in high dust

environments may ignite the dust and result in a dust

explosion

Electrostatic charge may build during conveying or handling.

Equipment handling polymer should be conductive and

grounded (earthed) and bonded.

Metal containers involved in the transfer of this material

should be grounded and bonded.

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All electrical equipment should conform to applicable electric codes and regulatory requirements for areas handling combustible dusts.

After handling, always wash hands thoroughly with soap and

water.

When bringing the material to processing temperatures vapors may develop may condense in the exhaust ventilation. See

section 10.

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

## Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Store in a dry location.

Use good housekeeping practices during storage, transferring and handling. Process enclosures and adequate ventilation should be used to avoid excessive dust accumulation. Store away from excessive heat and away from strong

oxidizing agents.

Keep container closed to prevent contamination.

Take measures to prevent the build up of electrostatic charge.

Specific end use(s)

: See Section 1.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Control parameters**

# Ingredients with workplace control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Туре	Limit Value	Basis	Additional
				Revision Date	Information
Materials that can		TWA	10 mg/m3	US (ACGIH)	
be formed when			inhalable	2005	
handling this					
product: Non-					
specified (inert or					
nuisance) dust					

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Materials that can be formed when handling this product: Non-specified (inert or	TWA	3 mg/m3 respirable	US (ACGIH) 2005	
nuisance) dust				

Consult local authorities for acceptable exposure limits.

## **Exposure controls**

# **Engineering measures**

Follow the recommendations in NFPA 654 (as amended and adopted) for equipment used to handle this product.

Engineering controls, i.e. enclosed systems, should be used whenever feasible to maintain exposures below acceptable criteria. When such controls are not feasible, or sufficient to achieve full conformance, other engineering controls such as local exhaust ventilation should be used. Equipment and vessels handling combustible dust from this material should be designed to either prevent dust explosions (inerting) or safely vent dust explosions per NFPA 654 Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

#### Personal protective equipment

Respiratory protection : Use process enclosures, local exhaust ventilation, or other

engineering controls to keep airborne levels below

recommended exposure limits.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.
Use appropriate respiratory protection where atmosphere

exceeds recommended limits.

Where workers could be exposed to dust concentrations above the exposure limit they must use appropriate certified

respirators.

Hand protection : Wear gloves that provide thermal protection where there is a

potential for contact with heated material.

Eye and face protection : Dust service goggles should be worn to prevent mechanical

injury or other irritation to eves due to airborne particles which

may result from handling this product.

Skin and body protection : Wear suitable protective clothing.

Hygiene measures : Selection of appropriate personal protective equipment should

be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered

during use.



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Use good personal hygiene practices.

Wash hands before eating, drinking, smoking, or using toilet

facilities.

Take off contaminated clothing and wash before reuse.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Pellets.

Color : Translucent to white

Odor : Slight.

Odor Threshold : No value available.

Flash point : No Data Available.

Lower explosion limit : The minimum explosive concentration (MEC) for polymer dust

varies according to particle size distribution.

Upper explosion limit : Not applicable.

Flammability (solid, gas) : Polymer will burn but does not easily ignite.

Oxidizing properties : Not considered an oxidizing agent.

Autoignition temperature : > 300 °C

Decomposition temperature : not determined

Melting point/range : 50 - 170 °C

Boiling point/boiling range : Not applicable.

Vapor pressure : Not applicable.

Density : <1 g/cm3

Water solubility : Insoluble.

Partition coefficient: n-

octanol/water

: No Data Available.

Viscosity, dynamic : Not applicable.

Relative vapor density : Not applicable.

Evaporation rate : Not applicable.

Explosive properties : No Data Available.



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Other Information : No additional information available.

## 10. STABILITY AND REACTIVITY

Reactivity : No known reactivity hazards.

Chemical stability : Stable under normal conditions.

Hazardous reactions : Will not occur.

Conditions to avoid : Avoid contact with strong oxidizers, excessive heat, sparks or

open flame.

Materials to avoid : Material may be softened by some hydrocarbons.

Hazardous decomposition

Thermal decomposition

products

: Not expected to decompose under normal conditions.

: Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols

may be formed.

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity : Not classified

Acute inhalation toxicity : Not classified

Acute dermal toxicity : Not classified

**Skin corrosion/irritation** : Not a skin irritant.

Serious eye damage/eye

irritation

: Not an eye irritant.

Mechanical irritation is possible.

Respiratory or skin

sensitization

: Not classified

Chronic toxicity

Carcinogenicity : Not classified



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Germ cell mutagenicity : Not classified

Reproductive toxicity

Effects on fertility /

: Not classified

Effects on or via lactation

Effects on Development : Not classified

Target Organ Systemic Toxicant - Single exposure

: The substance or mixture is not classified as specific target

organ toxicant, single exposure.

Target Organ Systemic Toxicant - Repeated

exposure

: The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

**Aspiration hazard** : Not applicable.

#### 12. Ecological information

**Ecotoxicology Assessment** 

Short-term (acute) aquatic

hazard

: Not classified

Long-term (chronic) aquatic hazard

: Not classified

Persistence and degradability

**Biodegradability** : Not expected to be biodegradable.

Bioaccumulative potential

**Bioaccumulation** : This material is not expected to bioaccumulate.

Mobility in soil

**Mobility** : no data available

Other adverse effects

Environmental fate and

pathways

: This material is not volatile and insoluble in water.

Other information



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Additional ecological

information

: Ecotoxicity is expected to be minimal based on the low water

solubility of polymers.

No data available on this product. However, birds, fish and other wildlife may eat pellets which may obstruct their

intestinal tracts.

# 13. Disposal considerations

#### Waste treatment methods

Product : All recovered material should be packaged, labeled,

transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good

engineering practices. Reclaim where possible.

Recycle if possible.

#### 14. TRANSPORT INFORMATION

Not regulated for transport

#### 15. REGULATORY INFORMATION

#### Other international regulations

## **Global Inventory Status**

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

\*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Compliant

REACh status



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If the product has been purchased from any company of the LyondellBasell group of companies registered in the European Union, we confirm that the chemical substance in this product has been registered under REACh, in accordance with the deadlines set forth in REACh. (Regulation (EU) No. 1907/2006)

Contact product.safety@lyb.com for additional global inventory information.

#### 16. OTHER INFORMATION

#### Material safety datasheet sections which have been updated:

Revised Section(s): 15 16

#### Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

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#### Numerical Data Presentation

The presentation of numerical data, such as that used for physical and chemical properties and toxicological values, is expressed using a comma (,) to separate digits into groups of three and a period (.) as the decimal marker. For example, 1,234.56 mg/kg = 1 234,56 mg/kg.

#### Language Translations

The information presented in this document has been translated from English by a vendor LyondellBasell believes to be reliable. LyondellBasell and its vendor have made a good-faith effort to verify the accuracy of the translation, but assume no liability or other responsibility for any errors that may have occurred. Please refer to our web site (www.lyondellbasell.com) for the original document written in English.

**End of Material Safety Data Sheet** 

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