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according to Regulation (EC) No. 1907/2006

Hostacom X M4 U16 201104 Version 1.1 Revision Date 11/30/2015

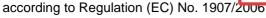
15 Print Date 04/14/2017

SDS No.: BE7656

1. Identification of the subs	tance/mixture and	of the company/undertaki	ng
 1.1 Product identifier Trade name Synonyms Substance name 1.2 Relevant identified uses 	: Polyolefin, : Compound	X M4 U16 201104 , Compounded polymer ded polyolefin or mixture and uses advis	ed against
Identified uses	 Manufacture of plastic articles by injection molding, extrusion or other conversion process. 		
Prohibited uses	: Aeronautical parts; Train transportation parts; Air bag unit housings; Seat belt systems and mechanisms; Brake systems and mechanisms; Pedals (brake , gas , clutch); Steering systems and mechanisms; Medical applications use		
1.3 Details of the supplier o	f the safety data sh	leet	1.4 Emergency telephone
Company Basell Sales & Marketing Company B.V. Delftseplein 27E 3013 AA Rotterdam Netherlands	Telephone 31 (0) 10 275 55 00	Registration number NA	Emergency telephone +32 3 575 1235
			Poison Center: National Poisons Information Service UK: +44 131 242 1383 24 hours all days
E-mail address Responsible/issuing pers	: product.saf son	ety@lyb.com	
2. Hazards identification			
2.1 Classification of the sub	ostance or mixture		
Classification (REGUL	ATION (EC) No 127	2/2008)	
Not a hazardous substar	nce or mixture accore	ding to Regulation (EC) No	1272/2008.
2.2 Label elements			
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Labeling (REGULATION (EC) No 1272/2008)

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

2.3 Other hazards

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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

3. Composition/information on ingredients

3.2 Mixtures

Ingredients

Chemical Name	CAS-No. EC-No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	<u>Weight %</u>
Proprietary blend of polyolefinic polymers	Mixture	Not Classified	Not Classified	50.0 - 80.0 %

Contains: Additives, stabilizers and fillers

4. First aid measures

4.1 Description of 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.
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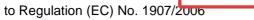
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	te 11/30/2015 Print Date 04/14/2017 SDS No.: BE
In case of eye contact	: Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists.
	 In case of eye contact with molten polymer: Continuously flush eye(s) with cool running water for at least 15 minutes. Beyond flushing, DO NOT attempt to remove the material adherent to the eye(s).
If swallowed	Immediately seek medical attention. : Adverse health effects due to ingestion are not anticipated.
	nd effects, both acute and delayed
Symptoms	: Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing.
Hazards	: Dust contact with the eyes can lead to mechanical irritation. Molten polymer may cause thermal burns.
3 Indication of any immediate	medical attention and special treatment needed
Treatment	. Transmont of overexpecture should be directed at the central of
Fire-fighting measures	: Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.
	symptoms and the clinical condition of the patient.
Fire-fighting measures 1 Extinguishing media	symptoms and the clinical condition of the patient.
Fire-fighting measures 1 Extinguishing media	 symptoms and the clinical condition of the patient. SMALL FIRE: Use dry chemical, CO2, or water spray. LARGE FIRES:
Fire-fighting measures 1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing	 symptoms and the clinical condition of the patient. SMALL FIRE: Use dry chemical, CO2, or water spray. LARGE FIRES: Use water spray hose nozzles from a safe location. None known.
Fire-fighting measures 1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	 symptoms and the clinical condition of the patient. SMALL FIRE: Use dry chemical, CO2, or water spray. LARGE FIRES: Use water spray hose nozzles from a safe location. None known.
Fire-fighting measures 1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 2 Special hazards arising from Specific hazards during fire	 symptoms and the clinical condition of the patient. SMALL FIRE: Use dry chemical, CO2, or water spray. LARGE FIRES: Use water spray hose nozzles from a safe location. None known. the substance or mixture Keep away from heat and sources of ignition. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned
Fire-fighting measures 1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 2 Special hazards arising from Specific hazards during fire fighting	 symptoms and the clinical condition of the patient. SMALL FIRE: Use dry chemical, CO2, or water spray. LARGE FIRES: Use water spray hose nozzles from a safe location. None known. the substance or mixture Keep away from heat and sources of ignition. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
 Fire-fighting measures 1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 2 Special hazards arising from Specific hazards during fire fighting 3 Advice for firefighters Special protective equipment 	 symptoms and the clinical condition of the patient. SMALL FIRE: Use dry chemical, CO2, or water spray. LARGE FIRES: Use water spray hose nozzles from a safe location. None known. the substance or mixture Keep away from heat and sources of ignition. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Wear approved positive pressure self-contained breathing

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SAFETY DATA SHEET according to Regulation (EC) No.	1907/2006 Iyondellbase
Hostacom X M4 U16 2	01104 Gen. Variant: SDS_GB
	te 11/30/2015 Print Date 04/14/2017 SDS No.: BE765
	 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.
6. Accidental release measures	
-	ctive equipment and emergency procedures
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.
6.2 Environmental precautions	
Environmental precautions	: Do not flush into surface water or sanitary sewer system.
6.3 Methods and materials for c	ontainment and cleaning up
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	
7.1 Precautions for safe handlin	a
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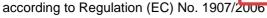


according to Regulation (EC) No. 1907/2006

Hostacom X M4 U16 2	01104	Gen. V	ariant: SDS_GB
	te 11/30/2015	Print Date 04/14/2017	SDS No.: BE765
Advice on safe handling	handling, or by concentrations Avoid dust acc Avoid generatin presence of an hazard. Static discharg environments r explosion Electrostatic ch Equipment han grounded (eart Metal containe should be grou All electrical eq codes and regu combustible du After handling, water. When bringing	small particles during further other means, may form cor- in air. umulation in enclosed space ing dust; fine dust suspender ignition source is a potentia (spark), or other ignition s may ignite the dust and resu- harge may build during conv indling polymer should be con- thed) and bonded. rs involved in the transfer of inded and bonded. quipment should conform to ulatory requirements for area	mbustible dust e. d in air and in the al dust explosion ources, in high dust it in a dust reying or handling. nductive and f this material applicable electric as handling ghly with soap and remperatures vapors
Fire-fighting class		urn but does not easily ignite	9.
7.2 Conditions for safe storage,		-	
Requirements for storage areas and containers	and handling. F should be used Store away fro oxidizing agent Keep containe	sekeeping practices during s Process enclosures and ade d to avoid excessive dust ac m excessive heat and away	equate ventilation cumulation. from strong nation.
7.3 Specific end use(s)			
	: See Section 1.	2.	
8. Exposure controls/personal p	protection		
8.1 Control parameters			
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Ingredients with workplace control parameters

Occupational Exposure Limits

Ingredients	CAS-No.	Туре	Limit Value	Basis Revision Date	Additional Information
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	10 mg/m3 inhalable	US (ACGIH) 2005	
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	3 mg/m3 respirable	US (ACGIH) 2005	

Consult local authorities for acceptable exposure limits.

8.2 Exposure controls

Engineering measures

Follow the recommendations in international standard 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. 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.
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injury or othe	er irritation to eyes due to a	
: Wear suitab	le protective clothing.	
 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. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Take off contaminated clothing and wash before reuse. 		
ontrols		
: See section	6.	
	properties	
: white		
: Slight.		
: Note: Not ap	oplicable.	
: Polymer will	burn but does not easily ig	nite.
: Not conside	red an oxidizing agent.	
: > 300 °C		
: Note: Not ap	oplicable.	
: 50 - 170 °C		
: Note: Not ap	oplicable.	
	 Dust service injury or othe may result fr Wear suitab Selection of be based on of the protect performed, of hazards and during use. Use good pe Wash hands facilities. Take off con See section ontrols Note: The m polymer dus Note: The m polymer dus Note: Not ap Polymer will Not consider > 300 °C Note: Not ap 50 - 170 °C 	 Print Date 04/14/2017 i Dust service goggles should be worn to injury or other irritation to eyes due to a may result from handling this product. Wear suitable protective clothing. Selection of appropriate personal prote be based on an evaluation of the performed, conditions present, duration hazards and/or potential hazards that n during use. Use good personal hygiene practices. Wash hands before eating, drinking, sm facilities. Take off contaminated clothing and wash facilities. See section 6.

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Density

Vapor pressure

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lyondellbasell Gen. Variant: SDS GB Hostacom X M4 U16 201104 Revision Date 11/30/2015 Print Date 04/14/2017 SDS No.: BE7656 : Note: Not applicable. : > 1 g/cm3 · Noto Incolubio

Water solubility	: Note: Insoluble.
Partition coefficient: n- octanol/water	: Note: No Data Available.
Viscosity, dynamic	: Note: Not applicable.
Relative vapor density	: Note: Not applicable.
Evaporation rate	: Note: Not applicable.

Explosive properties : No Data Available.

9.2 Other information

10. Stability and reactivity

10.1 Reactivity

No known reactivity hazards.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions Hazardous reactions : Will not occur. 10.4 Conditions to avoid Conditions to avoid : Avoid contact with strong oxidizers, excessive heat, sparks or open flame. **10.5 Incompatible materials** Materials to avoid : Material may be softened by some hydrocarbons. **10.6 Hazardous decomposition products** Hazardous decomposition : Not expected to decompose under normal conditions. products Thermal decomposition : Note: Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed. 11. Toxicological information

11.1 Information on toxicological effects

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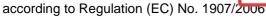
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Hostacom X M4 U16 201104 Gen. Variant: SDS_GB						
Version 1.1 Revision Date 1	1/30/2015 Pri	nt Date 04/14/20	17 SDS No.: BE7656			
Acute toxicity						
Acute oral toxicity	Not classified					
Acute inhalation toxicity	Not classified					
Acute dermal toxicity	Not classified					
Skin corrosion/irritation	Not a skin irritant.					
Serious eye damage/eye irritation	Not an eye irritant. Mechanical irritatio					
Respiratory or skin sensitization	Not classified					
Chronic toxicity						
Carcinogenicity	Not classified					
Germ cell mutagenicity	Not classified					
Reproductive toxicity						
Effects on or via lactation	Not classified					
Effects on Development	Not classified					
Target Organ Systemic Toxicant - Single exposure						
	The substance or organ toxicant, sin		ssified as specific target			
Target Organ Systemic Toxica	nt - Repeated expo	sure				
	The substance or organ toxicant, rep		ssified as specific target			
Aspiration hazard	Not applicable.					
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SAFETY DATA SHEET according to Regulation (EC) No. 7	1907/2006 Iyondellbasell		
Hostacom X M4 U16 20 Version 1.1 Revision Date	-		
12. Ecological information			
12.1 Toxicity			
Ecotoxicology Assessment			
Acute aquatic toxicity	Not classified		
Chronic aquatic toxicity	Not classified		
12.2 Persistence and degradabili	ty		
Biodegradability	Not expected to be biodegradable.		
12.3 Bioaccumulative potential			
Bioaccumulation	: This material is not expected to bioaccumulate.		
12.4 Mobility in soil			
Additional advice Environmental fate and pathways 12.5 Results of PBT and vPvB as	This material is not volatile and insoluble in water.		
This substance/mixture contair	ns no components considered to be either persistent, bioaccumulative tent and very bioaccumulative (vPvB).		
12.6 Other adverse effects			
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			
13.1 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.		
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14. Transport information

Not regulated for transport

15. Regulatory information

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

REACh status

If the product has been purchased from any company of the LyondellBasell group of companies registered in the European Union, we confirm that all substances in this preparation have been pre-registered or, where required under REACh, registered, and that we have the intention to proceed with their registration in accordance with the deadlines set forth in REACh. (Regulation (EU) No. 1907/2006)

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	Not Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Compliant

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

15.2 Chemical Safety Assessment

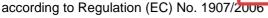
No information available.

16. Other information

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Material safety datasheet sections which have been updated:

Revised Section(s): 1 2 7 8 15 November 10 2015

Further information

Disclaimer

Multiple legal entities and registration numbers may be displayed in Section 1. The Recipient shall refer to the shipping documents to identify the legal entity that supplied this product.

This document is generated for the purpose of distributing health, safety, and environmental data.

Information is correct to the best of our knowledge at the date of the SDS publication. It is not a specification sheet nor should any displayed data be construed as a specification. Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally.

SELLER MAKES NO WARRANTY; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT.

Users should review the applicable Safety Data Sheet before handling the product. This product(s) may not be used in the manufacture of any of the following, without prior written approval by Seller for each specific product and application:

(i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;

(ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;

(iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;

(iv) tobacco related products and applications, electronic cigarettes and similar devices.

The product(s) may not be used in:

(i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;

(ii) applications involving permanent implantation into the body;

(iii) life-sustaining medical applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

In addition to the above, LyondellBasell may further prohibit or restrict the use of its products in certain applications. For further information, please contact a LyondellBasell representative.

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. Adflex, Adstif, Adsyl, Akoafloor, Akoalit, Alastian, Alathon, Aquathene, Avant, Catalloy, Clyrell, Dexflex, Flexathene, Hifax, Histif, Hostacom, Hostalen, Indure, Integrate, Koattro, Lucalen, Luflexen, Lupolen, Metocene, Microthene, Moplen, Nexprene, Petrothene, Plexar, Pristene, Pro-



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