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Material Safety Data Sheet, LDPE.doc		
Datum	Utfärdare	
2009-01-26		



1. Material class, profile-manufacturer, applied material and products

Material class:	LDPE (Low Density Polyethylene)
Profile-manufacturer:	Primo Sverige AB
Applied material-codes:	Material codes Primo:
Applied instrument number:	Tool number Primo:

2. Hazards identification

Risks by general handling:	At normal uses the product is deemed not to give health or environmental problems.
Injurious physical chemical effects:	If the product is heated and the recommended application temperature is exceeded, the product can melt and cause burns. Smoke and fumes from the melting process can irritate eyes, skin and respiratory organs and may cause fire. At higher temperatures, the product can decompose and toxic fumes are formed. If ignited, the combustion is generally incomplete. Incomplete combustion gives rise to toxic gases, such as carbon monoxide. By decomposition these toxic fumes are formed: hydrocarbons, (volatile organic compounds) and monomers.

3. Composition/ Information on ingredients

Chemical name, Main component:	LDPE (low density polyethylene, homopolymer)		
Chemical formula, Main component:	$(C_2H_4)_x$		
Material	Level (weight-percent)	R-fraser	CAS-nr
LDPE:	98,5 - 100 %		9002-88-4
Antioxidants and stabilizer	-		
Colouring matter, lubricating substance:	0-1,5 %		

4. First aid

In case of inhalation of fumes:	Remove injured persons to fresh air and keep at rest. Exposure of decomposition products for a longer time can give rise to headache and irritate respiratory organs. If symptoms like coughing and breathing difficulties should appear, seek medical advice.
In case of burns from melted product:	Wash burned areas immediately with plenty of water. Do not remove melted material without medical help.
By eye-contact of melted product:	Remove immediately contacts and rinse the eye with water for several minutes. Seek medical advice if irritation remains.
Consumption:	No poisoning risk, the material is biologically inactive.

5. Fire-fighting measures



Technical requirements:	Product can be set on fire but is not classified as a flammable product.
Fire fighting:	If fire is set on, the fire brigade is called and unauthorized personnel are evacuated. Authorized personnel can prevent the fire from spreading if there are no risks. Fire is put out with spread water, powder, foam or carbon dioxide.
Risks by exposure:	In case of fire, do not breathe fumes. Irritating fumes and thick black smoke are formed which can give breathing difficulties. Incomplete combustion occurs when oxygen levels are in deficit, this gives rise to toxic gases and particles (carbon monoxide, flue dust and volatile hydrocarbons) Complete combustion, when oxygen levels are in excess, gives rise to carbon dioxide and water.
Protective clothing for firemen:	Suitable respiratory equipment and suitable protective clothing.

6. Accidental release measurements

After leakage/discharge: Follow local area regulations.

7. Handling and storage

Handling and storage: The product is best stored in dry area at 10-30°C. Keep the product away from heat sources and flammable materials

8. Exposure control/ Personal protection

Limit value of occupational exposure	Respirable dust: S(2005) NGV: 5 mg/m ³
Hygiene limit value for dust: (if dust is produced during handling)	Dust: S(2005) NGV: 10 mg/m ³
Technical measures:	-
Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment. Recommended filter type: P1
Hygiene measures:	General industrial hygiene regulations are to be observed.
Protective clothing:	-

9. Physical, chemical and mechanical properties

Density:	0,9 g/cm ³
Tensile strength MD:	26 MPa (ISO 527-2)
Tensile strength TD:	20 MPa (ISO 527-3)
Tensile Modulus TD:	210 MPa (ASTM D882-A)
Tensile Modulus MD:	200 MPa (ASTM D882-A)
Flame point:	> 300°C
Vicat softening temperature:	95°C (ISO 306)
Melting point:	110-140°C

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10. Stability and reactivity

Stability:	Stabile under normal conditions.
Conditions to avoid:	Avoid contact with open fires.
Thermal decomposition-products:	Carbon monoxide, hydrocarbons, volatile organic compounds and monomers.

11. Toxicological information

Acute toxicity; consumption:	LDPE is regarded to be biologically inert.
Acute effect; inhalation, skin-exposure, eye-contact:	Handling with the product under normal conditions (room temperature and atmospheric pressure etc.) no hazardous effects on humans will arise. The product melts around 110-140°C. At continued heating of the product irritating smoke and fumes start to develop.

12. Ecological information

Movement in air, soil and water:	Due to the consistence the product is not miscible in water and is not expected to be mobile in soil. Movement in air due to evaporation is not likely to occur.
Decomposition:	Biological decomposition in nature is very low.
Bioaccumulation ability:	The product is not expected to have mentionable bioaccumulation.
Ecological toxicity:	The product has no detectable effect on nature.

13. Disposal considerations

Waste treatment:	Follow recommended local area regulations.
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14. Transport information

Road / Marine / Flight:	-
General rules:	
Special rules:	

15. Regulatory information

Marking:	
Classification:	Product is not classified to give health or environmental problems according to the regulations of KIFS (Kemikalieinspektionen) 1994:12)

16. Further information

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