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Material Safety Data Sheet, PVC softened, 60-99 ShA		
Datum	Utfärdare	
2009-02-25		



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

Material class:	PVC (Polyvinylchloride) with plasticizer.
Profile manufacturer:	Primo Sverige AB
Applied material codes:	Materialkoder Primo:
Applied instrument number:	Verktygsnummer 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. If ignited, the combustion is generally incomplete. Incomplete combustion gives rise to toxic gases, such as carbon monoxide. At higher temperatures thermal decomposition may occur and these toxic fumes are formed: carbon monoxide, carbon dioxide, hydrochloric acid, chlorating hydrocarbons and other toxic gases.

3. Composition/ Information on ingredients

Chemical name, Main component: PVC (Polyvinyl chloride) with plasticizer.

Chemical formula, Main component: $(-\text{CH}_2-\text{CHCl}-)_x$

Material	Level (weight-percent)	R-fraser	CAS-nr
PVC (Polyvinylchloride):	44-72 %		9002-86-2
Plasticizer, DINP, Di-isononyl phthalate:	6-25 %		28553-12-0
Calcium carbonate (chalk):	10-20 %		13397-25-6
Epoxidized soybean oil:	2-20 %		
Ca/Zn-stabilisator:	1-3 %		-
Pigment:	0-3 %		-
UV absorber:	0-0,4 %		
Wax:	0,1-0,3 %		

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 appear, seek medical advice. If necessary: give artificial breathing.
In case of burns from melted product:	Wash immediately with plenty of cold water. Do not remove melted material. Seek medical advice.

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In case of eye-contact:	Rinse the eye with water for several minutes. Seek medical advice if irritation remains.
Consumption:	

5. Fire-fighting measures

Technical requirements:	Fire brigade is called and unauthorized personnel are evacuated. Authorized personnel can prevent the fire from spreading if there are no risks.
Fire fighting:	Extinguish fires with carbon dioxide, water or "alcoholic foam".
Risks by exposure of fumes:	Handling the product in normal conditions (room temperature and atmospheric pressure) will not give any risks of injury for humans. In case of fire, do not breath fumes; irritating fumes and thick black smoke may form, which can give breathing difficulties. Incomplete combustion occurs when oxygen levels are low, this gives rise to toxic gases and particles etc: carbon monoxide, flue dust, volatile hydrocarbons, chlorated hydrocarbons and hydrochloric acid. Complete combustion, when oxygen levels are high, gives rise to carbon dioxide and water.
Protective clothing for firemen:	Suitable respiratory equipment (with pneumatic air) and suitable protective clothing should be used.

6. Accidental release measurements

After leakage/discharge:	Follow local area directions.
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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.
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8. Exposure control/ Personal protection

Limit value of occupational exposure	NGV (PVC):
Hygiene limit value for dust: <i>(if dust is produced during handling)</i>	-Dust, total: 1 mg/m ³ (Sweden) -Respirable dust: 0,5 mg/m ³ (Sweden)
Technical measures:	-
Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment (in case of fire use pneumatic air respiratory protection).
Hygiene measures:	General industrial hygiene regulations are to be observed.
Protective clothing:	-

9. Physical, chemical and mechanical properties

Density:	1,14-1,85 g/cm ³
Tensile strength, ultimate:	4-55 MPa
Tensile strength, yield:	28-50 MPa

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Hardness, Shore A:	40-99
Decomposition temperature:	>150°C

10. Stability and reactivity

Stability:	The product is stabile under normal conditions.
Conditions to avoid:	Avoid contact with extreme heat sources, heat, sparks and open fire. Overheating can cause thermal decomposition, which occurs at temperatures exceeding 200°C. Chemicals to avoid are strongly oxidising agents and strong acids.
Thermal decomposition products:	Carbon monoxide and hydrochloric acid.

11. Toxicological information

Acute toxicity; consumption:	-
Acute effect; inhalation, contact with skin, eye-contact:	The material is considered to be non-toxic in standard toxicological and eco-toxicological tests. It is considered to be biologically inactive.
Special effects:	-

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 slow.
Bioaccumulation ability:	The product is not expected to have mentionable bioaccumulation.
Ecological toxicity:	-

13. Disposal considerations

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

Road / Marine / Flight:	Labelling is not required.
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15. Regulatory information

Labelling and classifying:	Labelling is not needed.
Registration:	-

16. Further information

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