# SAFETY DATA SHEET



**AVALON® 90 AB** 

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

Product name : AVALON® 90 AB

Use of the

substance/mixture

: Thermoplastic polyurethane

Supplier : Huntsman Holland BV

Rozenburg Works
Merseyweg 10
Rotterdam
The Netherlands
Tel +31 181 29 91 11

Emergency telephone number (24h/7day)

: EUROPE: +32 35 75 1234 USA: +1/800/424.9300 ASIA: +65 6542 9595 China: +86 20 39377888 India +91 22 40506333 Australia: 1800 786 152 New Zealand: 0800 767 437

e-mail address of person responsible for this SDS

: Global\_Product\_EHS\_HPU@huntsman.com

# Section 2. Hazards identification

Classification of the

substance or mixture GHS label elements

: Not classified.

Signal word : No signal word.

**Hazard statements**: No known significant effects or critical hazards.

**Precautionary statements** 

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Hazardous ingredients : Not applicable.
Other hazards which do not : Not available.

result in classification

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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### Section 4. First-aid measures

#### **Description of necessary first aid measures**

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be

kept under medical surveillance for 48 hours.

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.

**Skin contact**: Molten material can cause severe burns. Do NOT try to peel molten polymer from

the skin. Cool rapidly with water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

**Eye contact** : Particles or fibres may cause slight discomfort similar to getting dust in the eye.

Remove particles by irrigating with eye wash solution or clean water, holding the eyelids apart. Check for and remove any contact lenses. Continue to rinse for at

least 10 minutes. Get medical attention if irritation occurs.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects

may be delayed following exposure.

Ingestion : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Eye contact : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Inhalation: No specific data.Ingestion: No specific data.Skin: No specific data.Eyes: No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

**Specific treatments**: Not available.

Notes to physician : Symptomatic and supportive therapy as needed. Following severe exposure medical

follow-up should be monitored for at least 48 hours.

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

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

**Suitable**: Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Specific hazards arising from the chemical

Hazardous thermal

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

: Unlikely under normal industrial use. If the product is heated to temperatures excessively higher than those recommended on the technical data sheet, then thermal decomposition is possible". Combustion products may include: carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub> etc), hydrocarbons, HCN."

Special precautions for firefighters : 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.

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# Section 5. Fire-fighting measures

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.

Remark : Not available.

### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Hazard of slipping on spilt product. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

Avoid dispersal of spilt 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).

Methods and materials for containment and cleaning up

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

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, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling

: Put on appropriate personal protective equipment (see Section 8). Burns are the most common injury during melt processing of thermoplastics. Take utmost care. 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.

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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Ingredient name Exposure limits

None.

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.

Appropriate engineering controls

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

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# Section 8. Exposure controls/personal protection

**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.

#### **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.

**Respiratory protection** 

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**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.

Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US). Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers. Additional information can be found for instance at www.gisbau.de.

**Eye 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.

Skin protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Solid. [Pellets.]
Colour : Not available.
Odour : Not available.
Odour threshold : Not available.
pH : Not available.
Melting point : Not available.
Boiling point : Not available.
Flash point : Not applicable.

Evaporation rate (butyl

acetate = 1)

: Not available.

Flammability (solid, gas)

: Thermal decomposition products are toxic and may include hydrocarbons, oxides of carbon and other irritating gases.

nlosivo · No

Lower and upper explosive (flammable) limits

: Not available.

Vapour pressure : Not available.
Vapour density : Not available.
Relative density : Not available.
Solubility : Not available.

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# Section 9. Physical and chemical properties

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature: Not available.Viscosity: Not available.Explosive properties: Not available.Oxidising properties: Not available.

#### Other information

No additional information.

# Section 10. Stability and reactivity

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 Incompatible materials

No specific data.No specific data.

**Hazardous decomposition** 

products

: Unlikely under normal industrial use. If the product is heated to temperatures excessively higher than those recommended on the technical data sheet, then thermal decomposition is possible". Combustion products may include: carbon

oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub> etc), hydrocarbons, HCN."

# Section 11. Toxicological information

#### Information on the likely routes of exposure

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects

may be delayed following exposure.

Ingestion: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Eye contact: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific data.Ingestion: No specific data.Skin contact: No specific data.Eye contact: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

#### Potential chronic health effects

Inhalation : No known significant effects or critical hazards. No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. **Skin contact** : No known significant effects or critical hazards. **Eve contact** Carcinogenicity No known significant effects or critical hazards. No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. **Teratogenicity** : No known significant effects or critical hazards. **Developmental effects Fertility effects** : No known significant effects or critical hazards.

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# Section 12. Ecological information

**Environmental effects**: No known significant effects or critical hazards.

Mobility : Not available.

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

**International transport regulations** 

14.1 UN number 14.2 UN proper shipping name

ADR/RID Not regulated. IMDG Not regulated. IATA Not regulated. -

	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards	14.6 Special precautions for user	Additional information
ADR/RID	-	-	No.	Not available.	-
IMDG	-	-	No.	Not available.	-
IATA	-	-	No.	Not available.	-

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

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# Section 15. Regulatory information

Signal word : No signal word.

**Hazard statements**: No known significant effects or critical hazards.

**Precautionary statements** 

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

#### Additional information: EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

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Risk phrases : This product is not classified according to EU legislation.

### Section 16. Other information

**History** 

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**Further information** 

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# Section 16. Other information

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