

SAFETY DATA SHEET

HUNTSMAN

AVALON® 80 AE

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Product name : AVALON® 80 AE
Use of the substance/preparation : Thermoplastic polyurethane

Company/undertaking identification

Supplier : Huntsman Holland BV
Rozenburg Works
Merseyweg 10
Rotterdam
The Netherlands
Tel +31 181 29 91 11

Emergency telephone number : EUROPE: +32 35 75 1234
ASIA: +65 6336-6011
USA: +1/800/424.9300

Local contact address : if available, see section 16.

2. Composition/information on ingredients

Substance/preparation : Preparation

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU or national regulations.

3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

See section 11 for more detailed information on health effects and symptoms.

4. First-aid measures

First-aid measures

- Inhalation** : Move exposed person to fresh air. Keep person warm and at rest. Obtain medical attention if symptoms occur. Loosen tight clothing such as a collar, tie, belt or waistband.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Obtain medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Molten material can cause severe burns. Do NOT try to peel molten polymer from the skin. Cool rapidly with water. Wash with soap and water. Obtain 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. Get medical attention if irritation occurs.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician** : Symptomatic treatment and supportive therapy as indicated.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : No specific hazard.
- Hazardous thermal decomposition products** : Unlikely under normal industrial use. If the product is heated to 20 Deg C above recommended processing temperature, thermal decomposition is possible. Combustion products may include: carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.), hydrocarbons, HCN
- 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.

6. Accidental release measures

- Personal precautions** : Use suitable protective equipment. Hazard of slipping on spilt product.
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, vacuum or carefully scoop up spilt material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

7. Handling and storage

- Handling** : Wear suitable protective clothing. Wash thoroughly after handling. Burns are the most common injury during melt processing of thermoplastics. Take utmost care.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended** : Use original container.

8. Exposure controls/personal protection

- Exposure limit values** : Not available.
- 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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
- Exposure controls**
- Occupational exposure controls** : No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. 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.
- 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.
- Respiratory protection** : Use a properly fitted, particulate filter 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.
- 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 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.
- 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.

9. Physical and chemical properties

General information

Appearance

- Physical state** : Solid.
- Colour** : Not available.
- Odour** : Not available.
- Odour threshold** : Not available.

Important health, safety and environmental information

- Boiling point** : Not available.
- Melting point** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Explosive properties** : Not available.
- Oxidising properties** : Not available.
- Vapour pressure** : Not available.
- Octanol/water partition coefficient** : Not available.
- Viscosity** : Not available.
- Vapour density** : Not available.
- Evaporation rate (butyl acetate = 1)** : Not available.

Other information

- Auto-ignition temperature** : Not available.

10. Stability and reactivity

- Stability** : The product is stable.
- Hazardous decomposition products** : Unlikely under normal industrial use. If the product is heated to 20 Deg C above recommended processing temperature, thermal decomposition is possible. Combustion products may include: carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.), hydrocarbons, HCN

11. Toxicological information

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- 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.

Acute toxicity

<u>Product/ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Not available.				

Potential chronic health effects

- | <u>Ingredient name</u> | <u>Carcinogenic effects</u> | <u>Mutagenic effects</u> | <u>Developmental toxicity</u> | <u>Impairs fertility</u> |
|------------------------------|-----------------------------|--------------------------|-------------------------------|--------------------------|
| Not available. | | | | |
| Carcinogenicity | : Not available. | | | |
| Mutagenicity | : Not available. | | | |
| Reproductive toxicity | : Not available. | | | |
| Other adverse effects | : Not available. | | | |

12. Ecological information

Ecotoxicity data

Ingredient name

Not available.

Species

Period

Result

Other ecological information

Persistence/degradability

Ingredient name

Not available.

BOD₅

COD

ThOD

Ingredient name

Not available.

Aquatic half-life

Photolysis

Biodegradability

Bioaccumulative potential

Ingredient name

Not available.

LogP_{ow}

BCF

Potential

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

13. Disposal considerations

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. 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.

European waste catalogue (EWC) : The relevant EU Directives and local, regional and national regulations must be complied with. It is among the tasks of the end user to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste catalogue. It is recommended that the details be agreed with the waste disposer responsible.

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.

14. Transport information

International transport regulations

Proper shipping name

ADR : Not regulated.

IMDG : Not regulated.

IATA : Not regulated.

<u>Regulatory information</u>	<u>UN number</u>	<u>Packing group</u>	<u>Label</u>	<u>Additional information</u>
ADR/RID Classification	Not regulated.	-		-
IMO/IMDG Classification	Not regulated.	-		-
ICAO/IATA Classification	Not regulated.	-		-

15. Regulatory information

EU Regulations

-
- Risk phrases** : This product is not classified according to EU legislation.
- Contains** : Not applicable
- Product use** : Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.
- Industrial applications.

Other EU regulations

16. Other information

History

- Date of printing** : 20 Feb 2006
- Date of issue** : 20 February 2006
- Date of previous issue** : No previous validation
- Version** : 1

Notice to reader

*While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, **NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.***

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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