# SAFETY DATA SHEET



**AVALON® 60 ABX** 

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

Product name : AVALON® 60 ABX

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: Avoid ingestion, inhalation, skin and eye contact. Handle in accordance with good

industrial hygiene practice and any legal requirements.

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

Ingredient name	%	CAS number
Bis-(2,6-diisopropyl phenyl)carbodiimide	1 - 3	2162-74-5

There are no additional 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.

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# Section 3. Composition/information on ingredients

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

### Section 4. First-aid measures

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

Inhalation : Remove vict

: 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**: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. 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

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

Special precautions for fire-

fighters

: 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. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

**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). 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. Remove contaminated clothing and protective equipment before entering eating areas.

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**

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

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 : No specific data.

Incompatible materials : No specific data.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# **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

#### **Acute toxicity**

Product/ingredient name Endpoint Species Result Exposure

Bis-(2,6-diisopropyl LD50 Dermal Rabbit >2000 mg/kg

phenyl)carbodiimide

LD50 Oral Rat 2395 mg/kg -

#### Potential chronic 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.
 Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.

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# Section 11. Toxicological information

Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

**IARC Classification** 

Product/ingredient name Classification

Bis-(2,6-diisopropyl phenyl)carbodiimide -

# Section 12. Ecological information

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

**Aquatic and terrestrial toxicity** 

Product/ingredient name Test Endpoint Exposure Species Result

Bis-(2,6-diisopropyl - Acute EC50 48 hours Daphnia >1000 mg/L

phenyl)carbodiimide

Biodegradability

Product/ingredient nameTestPeriodResultBis-(2,6-diisopropyl-28 days<60 %</td>

phenyl)carbodiimide

Product/ingredient name Aquatic half-life Photolysis Biodegradability

Bis-(2,6-diisopropyl - Not readily

phenyl)carbodiimide

**Bioaccumulative potential** 

Product/ingredient nameLogPowBCFPotentialBis-(2,6-diisopropyl>6.211900high

Bis-(2,6-diisopropyl phenyl)carbodiimide

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. -

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# Section 14. Transport information

	-						
	14.3 Transport hazard class(es)	14.4 Packing group		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.

# **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.

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

# Section 16. Other information

**History** 

Date of printing : 13 September 2012

Date of issue/Date of : 13 September 2012

revision

Date of previous issue : No previous validation

Version : 1

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### Section 16. Other information

MSDS no. : 00030874

**Further information** 

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