

AVALON® 65 AB

Version 1.0 Revision Date: 2015/08/12 SDS Number: 400001001464 Date of last issue: -
Date of first issue: 2015/08/12

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : AVALON® 65 AB

Chemical nature : Thermoplastic polyurethane

Manufacturer or supplier's details

Company : Huntsman (Taiwan) Ltd.
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Recommended use of the chemical and restrictions on use

Recommended use : Manufacture of plastics products

Restrictions on use : For industrial use only

2. HAZARDS IDENTIFICATION**GHS Classification**

Acute aquatic toxicity : Category 3

GHS Label element

Hazard pictograms : None

Signal Word : None

Hazard Statements : H402 Harmful to aquatic life.

Precautionary Statements : **Prevention:**
P273 Avoid release to the environment.
Disposal:
P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

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Other hazards which do not result in classification

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
oxydipropyl dibenzoate	27138-31-4	13 - 30

4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.

First aid measures for different exposure routesIf inhaled : If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.In case of eye contact : Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.Most important symptoms and effects, both acute and delayed : Symptoms of poisoning may not appear for several hours.
Keep under medical supervision for at least 48 hours.
Exposure to decomposition products may be a hazard to health.

Notes to physician : Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

5. FIRE-FIGHTING MEASURESSpecific extinguishing methods : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

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Personal precautions,
protective equipment and
emergency procedures : Avoid dust formation.

Methods and materials for
containment and cleaning up : Pick up and arrange disposal without creating dust.
Sweep up and shovel.
Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE**Handling**

Advice on protection against
fire and explosion : Provide appropriate exhaust ventilation at places where dust
is formed.

Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the
application area.

Storage

Conditions for safe storage : Electrical installations / working materials must comply with
the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters****Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally
required.

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : pellets

Color : No data available

Odor : No data is available on the product itself.

Odor Threshold : No data available

pH : No data available

Melting point : No data available

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Boiling point/boiling range	: Not applicable
Flash point	: Method: closed cup Not applicable
Evaporation rate	: No data is available on the product itself.
Flammability (solid, gas)	: No data is available on the product itself.
Upper explosion limit	: No data is available on the product itself.
Lower explosion limit	: No data is available on the product itself.
Vapor pressure	: No data available
Relative vapor density	: No data is available on the product itself.
Relative density	: No data available
Density	: No data available
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data is available on the product itself.
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data is available on the product itself.
Decomposition temperature	: Hazardous decomposition products formed under fire conditions. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: Not applicable
Oxidizing properties	: No data available
Self-Accelerating decomposition temperature (SADT)	: No data is available on the product itself.

10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: None known. Stable under recommended storage conditions.
Conditions to avoid	: No data available

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Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:
Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)
Hydrocarbons

11. TOXICOLOGICAL INFORMATION

Routes of exposure : No data is available on the product itself.

Symptoms of Overexposure : Symptoms of poisoning may not appear for several hours.
Keep under medical supervision for at least 48 hours.

Acute toxicity**Ingredients:**

oxydipropyl dibenzoate:

Acute oral toxicityIngredients : LD50 (Rat, male and female): 3,295 - 5,072 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Ingredients:

oxydipropyl dibenzoate:

Acute inhalation toxicity : LC50 (Rat, male and female): > 200 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Ingredients:

oxydipropyl dibenzoate:

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: Directive 67/548/EEC, Annex V, B.3.
GLP: yes

Acute toxicity (other routes of administration) : No data available

Skin corrosion/irritation**Ingredients:**

oxydipropyl dibenzoate:

Species: Rabbit

Assessment: No skin irritation

Method: Directive 67/548/EEC, Annex V, B.4.

Result: No skin irritation

GLP: yes

Serious eye damage/eye irritation**Ingredients:**

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oxydipropyl dibenzoate:
Species: Rabbit
Result: No eye irritation
Assessment: No eye irritation
Method: Directive 67/548/EEC, Annex V, B.5.
GLP: yes

Respiratory or skin sensitization**Ingredients:**

oxydipropyl dibenzoate:
Routes of exposure: Skin
Species: Guinea pig
Method: Directive 67/548/EEC, Annex V, B.6.
Result: Does not cause skin sensitization.

Assessment: No data available

Chronic toxicity**Germ cell mutagenicity****Ingredients:**

oxydipropyl dibenzoate:
Genotoxicity in vitro : Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Genotoxicity in vivo : No data available

Carcinogenicity

No data available

Carcinogenicity - Assessment : No data available

Reproductive toxicity**Ingredients:**

oxydipropyl dibenzoate:
Effects on fertility : Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 416
GLP: yes

Ingredients:

oxydipropyl dibenzoate:
Effects on fetal development : Species: Rat

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Application Route: Oral
General Toxicity Maternal: No-observed-effect level: 1,000 mg/kg body weight
Method: OECD Test Guideline 414
Result: No teratogenic effects.
GLP: yes

Reproductive toxicity - Assessment : No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Repeated dose toxicity**Ingredients:**

oxydipropyl dibenzoate:
Species: Rat, male and female
NOAEL (No observed adverse effect level): 1000 mg/kg/d
Application Route: Ingestion
Exposure time: 13 Weeks
Method: Subchronic toxicity

Repeated dose toxicity - Assessment : No data available

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

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Neurological effects

No data available

Further information**Product:**

Remarks: No data available

12. ECOLOGICAL INFORMATION**Ecotoxicity****Ingredients:**

oxydipropyl dibenzoate:

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): 3.7 mg/l
Exposure time: 96 h
Test Type: flow-through test
Test substance: Fresh water
Method: OECD Test Guideline 203
GLP: yes

Ingredients:

oxydipropyl dibenzoate:

Toxicity to daphnia and other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 19.3 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202
GLP: yes

Ingredients:

oxydipropyl dibenzoate:

Toxicity to algae

: EL50 (Selenastrum capricornutum (green algae)): 1.1 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201
GLP: yes

ErC50 (Selenastrum capricornutum (green algae)): 4.9 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity)

: No data available

Toxicity to fish (Chronic toxicity)

: No data available

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available

M-Factor (Chronic aquatic toxicity) : No data available

Ingredients:

oxydipropyl dibenzoate:
Toxicity to bacteria : EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 209
GLP: yes

Ingredients:

oxydipropyl dibenzoate:
Toxicity to soil dwelling organisms : NOEC (Eisenia fetida (earthworms)): 1000
Exposure time: 336 h
Test substance: Synthetic
Method: OECD Test Guideline 207
GLP: yes

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment
Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Further information:
No data available

Persistence and degradability**Ingredients:**

oxydipropyl dibenzoate:
Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 79 %
Exposure time: 29 d
Method: Directive 67/548/EEC Annex V, C.4.C.

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Ingredients:

oxydipropyl dibenzoate:
Biochemical Oxygen Demand (BOD) : 0.65 mg/l

Ingredients:

oxydipropyl dibenzoate:
Chemical Oxygen Demand (COD) : 2.23 mg/l
BOD/COD : No data available
ThOD : No data available
BOD/ThOD : No data available
Dissolved organic carbon (DOC) : No data available
Physico-chemical removability : No data available
Stability in water : No data available
Photodegradation : No data available
Impact on Sewage Treatment : No data available

Bioaccumulative potential**Ingredients:**

oxydipropyl dibenzoate:
Bioaccumulation : Bioconcentration factor (BCF): 101
Partition coefficient: n-octanol/water - Product : Remarks: No data available

Mobility in soil

Mobility : No data available

Ingredients:

oxydipropyl dibenzoate:
Distribution among environmental compartments : Koc: 3981. Method: OECD Test Guideline 121
Stability in soil : No data available

Other adverse effects

Environmental fate and pathways : No data available
Results of PBT and vPvB : No data available

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assessment

Endocrine disrupting potential : No data available

Adsorbed organic bound halogens (AOX) : No data available

Hazardous to the ozone layer

Ozone-Depletion Potential : Not applicable

Additional ecological information - Product : No data available

Global warming potential (GWP) : No data available

13. DISPOSAL CONSIDERATIONS**Disposal methods**

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION**International Regulation****IATA**

Not regulated as a dangerous good

IMDG

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION**National regulatory information****Other international regulations****The ingredients of this product are reported in the following inventories:**

CH INV : The mixture contains substances listed on the Swiss Inventory

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL.

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AICS : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

16. OTHER INFORMATION

Revision Date : 2015/08/12
Responsible Department : Product EHS
Prepared by : Product EHS
Date format : yyyy/mm/dd

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