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	Revision Date: 01.05.2012
<b>SAFETY DATA SHEET</b>	Print Date: 08.08.2014
Derakane Momentum™ 510C-350 epoxy vinyl ester resin ™ Trademark, Ashland or its subsidiaries, registered in various countries 40221	MSDS Number: R0402434 Version: 1.0

Conforms to EU Regulation 1907/2006/EC as amended. - SDSCLP\_GB

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : Derakane Momentum™ 510C-350  
epoxy vinyl ester resin  
™ Trademark, Ashland or its subsidiaries, registered in  
various countries

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Reserved for industrial and professional use.

### 1.3 Details of the supplier of the safety data sheet

Ashland P.O. Box 8619 NL3009 AP, Rotterdam Netherlands  EUSMT@ashland.com	<b>Emergency telephone number</b> 00-800-274-5263-3/001-606-329-5701 , or contact your local emergency telephone number at 112  <b>Product Information</b> +31 10 497 5000 (in the Netherlands), or contact your local CSR contact person
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## 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (67/548/EEC, 1999/45/EC)

Flammable	R10: Flammable.
Harmful	R20: Harmful by inhalation. R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Irritant	R36/37/38: Irritating to eyes, respiratory system and skin.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Labelling according to EC Directives(1999/45/EC)

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Hazard symbols :



Harmful

R-phrase(s)

: R10 Flammable.  
R20 Harmful by inhalation.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

S-phrase(s)

: S16 Keep away from sources of ignition - No smoking.  
S23 Do not breathe vapour.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37/39 Wear suitable gloves and eye/face protection.  
S51 Use only in well-ventilated areas.  
S43 In case of fire, use foam, carbon dioxide (CO<sub>2</sub>), Water spray, dry chemical.

Hazardous components which must be listed on the label:

100-42-5 Styrene

### 2.3 Other hazards

Assessment : PBT substance , vPvB substance - not determined

## 3. Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Static Accumulator

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Styrene	100-42-5 202-851-5 01-2119457861-32-xxxx	R10 Xn; R20 Xi; R36/37/38 Xn; R48/20	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 25 - < 40

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		Xn; R65	STOT SE 3; H335 STOT RE 1; H372 Asp. Tox. 1; H304	
Methacrylic acid	79-41-4 201-204-4	Xn; R21/22 C; R35	Acute Tox. 4; H302 Acute Tox. 3; H311 Skin Corr. 1A; H314	>= 0,5 - < 1

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. First aid measures

### 4.1 Description of first aid measures

- General advice : Consult a physician.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.  
Consult a physician after significant exposure.  
If symptoms persist, call a physician.  
In case of shortness of breath, give oxygen.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off immediately with plenty of water.  
If skin irritation persists, call a physician.
- In case of eye contact : Hold eyelids apart and flush eyes with plenty of water for at  
least 15 minutes. Get medical attention.  
Remove contact lenses.
- If swallowed : Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.  
Consult a physician if necessary.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Signs and symptoms of exposure to this material through  
breathing, swallowing, and/or passage of the material through  
the skin may include:  
stomach or intestinal upset (nausea, vomiting, diarrhea)  
irritation (nose, throat, airways)  
central nervous system depression (dizziness, drowsiness,  
weakness, fatigue, nausea, headache, unconsciousness) and  
other central nervous system effects  
Lack of coordination  
confusion  
liver damage

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Risks : This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : no data available

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### 5. Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Foam  
Water spray

Unsuitable extinguishing media : Halons  
High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide  
Hydrocarbons

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Further information : Keep containers and surroundings cool with water spray.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.

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## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Ensure adequate ventilation.  
Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

### 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

no data available

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## 7. Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours or spray mist.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Avoid exceeding of the given occupational exposure limits (see section 8).  
Smoking, eating and drinking should be prohibited in the application area.  
Ensure all equipment is electrically grounded before beginning transfer operations.

Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge.  
Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.  
Keep product and empty container away from heat and sources of ignition.  
No sparking tools should be used.

### 7.2 Conditions for safe storage, including any incompatibilities

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Requirements for storage areas and containers : Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Other data : Stable under recommended storage conditions.

### 7.3 Specific end uses

## 8. Exposure controls/personal protection

### 8.1 Control parameters

Components	CAS-No.	Value type	Form of Exposure	Control parameters	Update	Basis
Styrene	100-42-5	TWA		100 ppm 430 mg/m <sup>3</sup>	2007	EH40 WEL
Styrene	100-42-5	STEL		250 ppm 1.080 mg/m <sup>3</sup>	2007	EH40 WEL
Methacrylic acid	79-41-4	TWA		20 ppm 72 mg/m <sup>3</sup>	2007	EH40 WEL
Methacrylic acid	79-41-4	STEL		40 ppm 143 mg/m <sup>3</sup>	2007	EH40 WEL

DNEL  
Styrene : End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Short-term exposure, Systemic effects  
Value: 289 mg/m<sup>3</sup>

Styrene : End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Short-term exposure, Local effects  
Value: 306 mg/m<sup>3</sup>

Styrene : End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term exposure, Systemic effects  
Value: 85 mg/m<sup>3</sup>

Styrene : End Use: Workers

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Exposure routes: Skin contact  
Potential health effects: Long-term exposure, Systemic effects  
Value: 406 mg/kg

Styrene : End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Short-term exposure, Systemic effects  
Value: 174,25 mg/m3

Styrene : End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Short-term exposure, Local effects  
Value: 182,75 mg/m3

Styrene : End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term exposure, Systemic effects  
Value: 343 mg/kg

Styrene : End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term exposure, Systemic effects  
Value: 2,1 mg/kg

Styrene : End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term exposure, Systemic effects  
Value: 10,2 mg/m3

## 8.2 Exposure controls

### Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

### Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear as appropriate:  
Safety shoes  
Flame-resistant clothing  
Wear resistant gloves such as:  
polyvinyl alcohol

Hygiene measures : Keep away from food, drink and animal feedingstuffs.

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When using do not eat, drink or smoke.  
Ensure that eyewash stations and safety showers are close to  
the workstation location.

#### Environmental exposure controls

General advice : Prevent further leakage or spillage if safe to do so.

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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: amber
Odour	: pungent
Odour Threshold	: no data available
pH	: no data available
Freezing point / Melting point	: no data available
Boiling point	: 145 °C
Flash point	: 29,4 °C; Seta closed cup
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Burning rate	: no data available
Lower explosion limit	: 1 %(V); GLP: Calculated Explosive Limit
Upper explosion limit	: 6 %(V); GLP: Calculated Explosive Limit
Vapour pressure	: 8,53248 hPa; 25 °C; Calculated Vapor Pressure
Relative vapour density	: > 1; AIR=1
Relative density	: 1,15; 20,00 °C
Density	: 1,15 g/cm <sup>3</sup> ; 20,00 °C



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Water solubility : insoluble

Solubility in other solvents : no data available

Partition coefficient: n-octanol/water : no data available

Autoignition temperature : 490 °C

Ignition temperature : no data available

Thermal decomposition : no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : > 20,5 mm<sup>2</sup>/s; 40 °C

Explosive properties : no data available

Oxidizing properties : no data available

## 9.2 Other information

Conductivity : no data available

Oxidising potential : no data available

Refractive index : no data available

Glowing Temperature : no data available

Burning number : no data available

Molecular Weight : no data available

Sublimation point : no data available

Bulk density : no data available

Flow time : no data available

Impact Sensitivity : no data available

Surface tension : no data available

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## 10. Stability and reactivity

### 10.1 Reactivity

Hazardous polymerisation may occur.

### 10.2 Chemical stability

Stable under recommended storage conditions.

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### 10.3 Possibility of hazardous reactions

Hazardous reactions : Further information: Stable under recommended storage conditions.

: Hazardous polymerisation may occur.  
Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

Exposure to sunlight.  
Exposure to air.

### 10.5 Incompatible materials

Materials to avoid : Acids  
Bases  
alkalis  
aluminum  
aluminum chloride  
Copper  
Copper alloys  
halogens  
iron chloride  
metal salts  
Peroxides  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide and carbon monoxide  
Hydrocarbons

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## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Product

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Acute toxicity (other routes of : no data available

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administration)

Skin corrosion/irritation : no data available

Serious eye damage/eye irritation : no data available

Respiratory or skin sensitization : no data available

STOT - repeated exposure : Target Organs: Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: liver damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: mild effects on color vision, effects on hearing, respiratory tract damage (nose, throat, and airways), central nervous system effects

**Components:**

**Styrene :**

Acute oral toxicity : LD 50: 2.650 mg/kg, Rat

Acute inhalation toxicity : LC 50: 2800 ppm, 4 h, Rat,

STOT - single exposure : Assessment: May cause respiratory irritation.

Further information : Central Nervous System

**Methacrylic acid :**

Acute oral toxicity : LD 50: 1.320 mg/kg, Rat(male), OECD Test Guideline 401

Acute inhalation toxicity : LD 50: 7,1 mg/l, 4 h, Rat, Aerosol

Acute dermal toxicity : LD 50: 500 mg/kg, Rabbit

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## 12. Ecological information

### 12.1 Toxicity

**Product:**

no data available

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**Components:**

**Styrene:**

Toxicity to fish : LC 50: 4,02 mg/l, 96 h, Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates : EC 50: 4,7 mg/l, 48 h, Water flea (Daphnia magna)

Toxicity to algae : EC 50: > 4,9 mg/l, 72 h, Pseudokirchneriella subcapitata (green algae)

Toxicity to bacteria : EC 50: ca. 500 mg/l, 0,5 h, activated sludge

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,01 mg/l, 21 d, Water flea (Daphnia magna)

**12.2 Persistence and degradability**

**Product:**

no data available

**Components:**

**Styrene :**

Biodegradability : Readily biodegradable

**12.3 Bioaccumulative potential**

**Product:**

Bioaccumulation : The bioaccumulation potential cannot be determined.

**Components:**

no data available

**12.4 Mobility in soil**

**Product:**

no data available

**Components:**

no data available

**12.5 Results of PBT and vPvB assessment**

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**Product:**  
no data available

**Components:**  
no data available

## 12.6 Other adverse effects

**Product:**  
no data available

**Components:**  
no data available

## 13. Disposal considerations

### 13.1 Waste treatment methods

- Product : Dispose of in accordance with the European Directives on waste and hazardous waste.
- : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Container hazardous when empty.  
Dispose of in accordance with local regulations.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## 14. Transport information

### REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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#### ADR

UN 1866	RESIN SOLUTION	3		III	
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#### ADNR

UN 1866	RESIN SOLUTION	3		III	
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#### RID

UN	1866	RESIN SOLUTION	3	III
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#### INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1866	RESIN SOLUTION	3	III
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#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1866	Resin solution	3	III
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#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1866	Resin solution	3	III
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\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Notification status

US. Toxic Substances Control Act	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	q (quantity restricted)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	q (quantity restricted)
Japan. Kashin-Hou Law List	n (Negative listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	n (Negative listing)
China. Inventory of Existing Chemical Substances	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	n (Negative listing)

### 15.2 Chemical Safety Assessment

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## 16. Other information

### Full text of R-phrases referred to under sections 2 and 3

R10	Flammable.
R20	Harmful by inhalation.
R21/22	Harmful in contact with skin and if swallowed.
R35	Causes severe burns.
R36/37/38	Irritating to eyes, respiratory system and skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65	Harmful: may cause lung damage if swallowed.

### Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.

### Further information

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (+31 10 497 5000).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ABM : Water Hazard Class for the Netherlands  
 ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.  
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
 CLP : Classification, Labeling, Packaging  
 CMR : Carcinogen, Mutagen or Reproductive Toxicant  
 CSA : Chemical Safety Assessment  
 CSR : Chemical Safety Report  
 DNEL : Derived No Effect Level.  
 EINECS : European Inventory of Existing Commercial Chemical Substances.  
 ELINCS : European List of notified Chemical Substances  
 FG : Food grade  
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
 IATA : International Air Transport Association.

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IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
 ICAO : International Civil Aviation Organization  
 ICAO-TI  
 (ICAO) : Technical Instructions by the "International Civil Aviation Organization"  
 IMDG : International Maritime Code for Dangerous Goods  
 logPow : octanol-water partition coefficient  
 LCxx : Lethal Concentration, for xx percent of test population  
 LDxx : Lethal Dose, for xx percent of test population.  
 ICxx : Inhibitory Concentration for xx of a substance  
 Ecxx : Effective Concentration of xx  
 OECD : Organization for Economic Co-operation and Development  
 OELs : Occupational Exposure Limits  
 PBT : Persistent , Bioaccumulative and Toxic  
 PEC : Predicted Effect Concentration  
 PEL : Permissible Exposure Limits  
 PNEC : Predicted No Effect Concentration  
 PPE : Personal Protection Equipment  
 REACH : Registration, Evaluation, Authorisation and Restriction of Chemical substances  
 RID : Regulation Concerning the International Transport of Dangerous Goods by Rail  
 STEL : Short-term exposure limit  
 STOT : Specific Target Organ Toxicity  
 TLVs : Threshold Limit Values  
 TWA : Time-weighted average  
 vPvB : Very Persistent and Very Bioaccumulative  
 WEL : Workplace Exposure Level  
 WGK : German Water Hazard Class  
 P-Statement : Precautionary Statement  
 R-phrase : Risk phrase  
 H-statement : Hazard Statement