

<b>ASHLAND</b>		Page: 1
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : SMC REPAIR

### Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Adhesives  
Industrial chemical

<b>Details of the supplier of the safety data sheet</b> Ashland P.O. Box 2219 Columbus, OH 43216 United States of America  EHS Customer Requests@ashland.com	<b>Emergency telephone number</b> 1-800-ASHLAND (1-800-274-5263)  <b>Regulatory Information Number</b> 1-800-325-3751  <b>Product Information</b> 614-790-3333
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## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Skin corrosion : Category 1A

Serious eye damage : Category 1

Skin sensitization : Category 1

### GHS Label element

Hazard pictograms :  

Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Causes serious eye damage.

Precautionary Statements : **Prevention:**  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
Wash skin thoroughly after handling.

<b>ASHLAND®</b>		Page: 2
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**PART A**

**Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
NPG MODIFIED POLYMER	800986-5578P	Skin Irrit. 2; H315 Skin Sens. 1; H317	>= 10.00 - < 15.00
EPOXY RESIN SYSTEM MODIFIER	800986-5579P	Skin Irrit. 2; H315 Skin Sens. 1; H317	>= 10.00 - < 15.00
CALCIUM COMPOUND	254504001-5840		>= 5.00 - < 10.00
PHYLOSILICATES	254504001-5903	This material is not considered hazardous under the OSHA Hazard	>= 1.50 - < 5.00

## SAFETY DATA SHEET

Revision Date: 05/25/2015

Print Date: 6/1/2015

SDS Number: 000000093543

SMC REPAIR

Version: 1.1

507290

		Communication Standard (HazCom 2012).	
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The identity of one or more component(s) is being withheld under business confidentiality.

BISPHENOL A-EPICHLOROHYDRIN POLYMER	25068-38-6	Skin Sens. 1B; H317	61.38
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### PART B

Substance / Mixture : Mixture

### Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
CALCIUM COMPOUND	254504001-5840		>= 20.00 - < 30.00
ALIPHATIC DIAMINE	800986-5576P	Flam. Liq. 4; H227 Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335	>= 10.00 - < 15.00
PHYLOSILICATES	254504001-5903	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	>= 1.50 - < 5.00
ALIPHATIC AMINE	254504001-5601	Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 1.50 - < 5.00

<b>ASHLAND®</b>		Page: 4
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

EPOXY RESIN CURING AGENT	800986-5577P	Skin Corr. 1; H314 Eye Dam. 1; H318	>= 1.50 - < 5.00
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The identity of one or more component(s) is being withheld under business confidentiality.

#### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
IF INHALED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
Keep patient warm and at rest.  
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
If on skin, rinse well with water.  
Wash contaminated clothing before re-use.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Get medical attention immediately.  
Do NOT induce vomiting.  
Rinse mouth with water.  
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 : 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)  
Cough  
chest pain  
May cause an allergic skin reaction.

<b>ASHLAND®</b>		Page: 5
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

Causes serious eye damage.  
Causes severe burns.

Notes to physician : No hazards which require special first aid measures.

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## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon dioxide and carbon monoxide  
Hydrocarbons  
phenols  
acid smoke and fumes  
Hydrogen  
formaldehyde  
acid vapors  
Ammonia  
carboxylic acids  
Nitrogen oxides (NO<sub>x</sub>)
- Specific extinguishing methods :  
  
Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent product from entering drains.

<b>ASHLAND®</b>		Page: 6
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

## SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid formation of aerosol.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Container hazardous when empty.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

#### PART A

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
PHYLOSILICATES	254504001-5903	TWA	2 mg/m <sup>3</sup> Respirable fraction.	ACGIH
		REL	2 mg/m <sup>3</sup>	NIOSH/GUID

<b>ASHLAND®</b>		Page: 7
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

			Respirable.	E
		TWA	0.1 mg/m3 Respirable.	Z3
		TWA	0.3 mg/m3 Total dust.	Z3

**PART B**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
PHYLOSILICATES	254504001-5903	TWA	2 mg/m3 Respirable fraction.	ACGIH
		REL	2 mg/m3 Respirable.	NIOSH/GUID E
		TWA	0.1 mg/m3 Respirable.	Z3
		TWA	0.3 mg/m3 Total dust.	Z3

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

**Personal protective equipment**

**Respiratory protection** : In the case of vapour formation use a respirator with an approved filter.  
  
A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

**Hand protection**  
**Remarks** : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection** : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.  
Maintain eye wash station in immediate work area.

**Skin and body protection** : Wear as appropriate:  
impervious clothing

<b>ASHLAND®</b>		Page: 8
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

Chemical resistant apron  
 Safety shoes  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
 Discard gloves that show tears, pinholes, or signs of wear.  
 Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.  
 When using do not eat or drink.  
 Ensure that eyewash stations and safety showers are close to the workstation location.  
 When using do not smoke.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### PART A

Physical state : liquid

Odour : No data available

Odour Threshold : No data available

pH : No data available

: No data available

Boiling point/boiling range : 299.8 °F / 148.8 °C

Flash point : 230 °F / 110 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 1.3333333 hPa (20 °C)  
 Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

Density : 1.12 g/cm<sup>3</sup> (77 °F)

Solubility(ies)  
 Water solubility : No data available

<b>ASHLAND</b>		Page: 9
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

Solubility in other solvents : No data available

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

Thermal decomposition : No data available

Viscosity

    Viscosity, dynamic : No data available

    Viscosity, kinematic : No data available

Oxidizing properties : No data available

**PART B**

Physical state : liquid

Colour : tan

Odour : No data available

Odour Threshold : No data available

pH : No data available

: No data available

Boiling point/boiling range : 270.5 °F / 132.5 °C  
(1.333333 hPa)  
Calculated Phase Transition Liquid/Gas

Flash point : > 200.1 °F / > 93.4 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 173.3333333 hPa (135 °C)  
Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : 1.1 (25 °C)

Density : 1.1 g/cm3 (25 °C)

<b>ASHLAND®</b>		Page: 10
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

Solubility(ies)  
 Water solubility : No data available

Solubility in other solvents : No data available

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

Thermal decomposition : No data available

Viscosity  
 Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

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#### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat  
 heat  
 None known.  
 Exposure to moisture

Incompatible materials : None known.  
 Acids  
 Amines  
 Bases  
 Oxidizing agents  
 water  
 Peroxides

Hazardous decomposition products : carbon dioxide and carbon monoxide  
 Hydrocarbons  
 Nitrogen oxides (NOx)  
 phenols  
 Ammonia

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#### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation



<b>ASHLAND</b>		Page: 12
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

LD 50 (Rat): > 2,150 mg/kg  
Method: OECD Test Guideline 402

**EPOXY RESIN CURING AGENT:**

Acute oral toxicity : LD 50 (Rat): 2,169 mg/kg  
Method: OECD Test Guideline 401

**Skin corrosion/irritation**

Causes severe burns.

**Product:**

Remarks: May cause skin irritation in susceptible persons., Causes severe skin burns and eye damage.

**Components:**

**POLYMER:**

Result: Slightly irritating to skin

**CALCIUM COMPOUND:**

Result: Slightly irritating to skin

**ALIPHATIC DIAMINE:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive after 3 minutes or less of exposure

**NPG MODIFIED POLYMER:**

Result: Irritating to skin

**EPOXY RESIN SYSTEM MODIFIER:**

Species: Rabbit

Result: Irritating to skin

**PHYLOSILICATES:**

Result: Possibly irritating to skin

**ALIPHATIC AMINE:**

Result: Corrosive to skin

**EPOXY RESIN CURING AGENT:**

Result: Corrosive to skin

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks: May cause irreversible eye damage.

**Components:**

**POLYMER:**

Result: Slightly irritating to eyes

**CALCIUM COMPOUND:**

Result: Slightly irritating to eyes

**ALIPHATIC DIAMINE:**

<b>ASHLAND®</b>		Page: 13
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

Species: Rabbit  
Result: Corrosive to eyes

NPG MODIFIED POLYMER:  
Result: Possibly irritating to eyes

EPOXY RESIN SYSTEM MODIFIER:  
Result: Mildly irritating to eyes

PHYLOSILICATES:  
Result: Possibly irritating to eyes

ALIPHATIC AMINE:  
Result: Corrosive to eyes

EPOXY RESIN CURING AGENT:  
Result: Corrosive to eyes

**Respiratory or skin sensitisation**

Skin sensitisation: May cause an allergic skin reaction.  
Respiratory sensitisation: Not classified based on available information.

**Components:**

**POLYMER:**  
Test Type: Local lymph node assay  
Method: OECD Test Guideline 429  
Result: The product is a skin sensitiser, sub-category 1B.

**ALIPHATIC DIAMINE:**  
Species: Guinea pig  
Assessment: Did not cause sensitisation on laboratory animals.

**NPG MODIFIED POLYMER:**  
Assessment: May cause sensitisation by skin contact.

**EPOXY RESIN SYSTEM MODIFIER:**  
Assessment: May cause sensitization by skin contact.

**ALIPHATIC AMINE:**  
Assessment: May cause sensitization by skin contact.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**POLYMER:**  
Genotoxicity in vitro

- : Test Type: in vitro assay  
Test species: Rodent cell line  
Metabolic activation: without metabolic activation  
Result: positive
- : Test Type: in vitro assay  
Test species: Rodent cell line  
Metabolic activation: with metabolic activation  
Result: negative

<b>ASHLAND®</b>		Page: 14
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

- Genotoxicity in vivo : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative
- Genotoxicity in vivo : Test Type: in vivo assay  
Test species: Mouse (male)  
Application Route: Ingestion  
Result: negative
- ALIPHATIC DIAMINE:  
Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test species: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473 (In vitro Mammalian Chromosome Aberration Test)  
Result: negative  
GLP: yes
- Genotoxicity in vivo : Test species: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes
- Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: Mouse (male and female)  
Application Route: inhalation (dust/mist/fume)  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.
- EPOXY RESIN SYSTEM MODIFIER:  
Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: positive

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**Components:**

ALIPHATIC DIAMINE:

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

<b>ASHLAND®</b>		Page: 15
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

**Further information**

**Product:**

Remarks: No data available

**Carcinogenicity:**

**IARC**

Group 2B: Possibly carcinogenic to humans

TALC

14807-96-6

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

**POLYMER:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.7 mg/l  
Exposure time: 96 h  
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (Daphnia magna)): 2.8 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 4.2 mg/l  
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Water flea (Daphnia magna)): 0.3 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211

**ALIPHATIC DIAMINE:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 130 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 50 mg/l  
Exposure time: 48 h

<b>ASHLAND®</b>		Page: 16
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

Test Type: static test  
Method: EPA-660/3-75-009  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
Remarks: Information given is based on data obtained from similar substances.

NOEC (Pseudokirchneriella subcapitata (green algae)): 10 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 4.16 mg/l  
Exposure time: 21 d  
End point: Reproduction Test  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to bacteria : EC20 (Pseudomonas putida): 30 mg/l  
End point: Growth rate  
Exposure time: 18 h  
Test Type: Static

**ALIPHATIC AMINE:**

Toxicity to fish : LD 50 (Leuciscus idus (Golden orfe)): > 1,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Neutralised product  
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): 218.16 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: Directive 67/548/EEC, Annex V, C.2.

**EPOXY RESIN CURING AGENT:**

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): > 180 - < 240 mg/l  
Exposure time: 96 h  
Test Type: static test

<b>ASHLAND®</b>		Page: 17
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

Toxicity to algae : EC 50 (Desmodesmus subspicatus (green algae)): 84 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h

**Persistence and degradability**

**Components:**

**POLYMER:**

Biodegradability : Result: Not readily biodegradable.  
 Biodegradation: 5 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301F

Biodegradation: 82 %  
 Exposure time: 28 d  
 Method: Abiotic degradation

Physico-chemical : Remarks: The product can be degraded by abiotic (e.g.  
 removability chemical or photolytic) processes.

**ALIPHATIC DIAMINE:**

Biodegradability : Result: Readily biodegradable  
 Biodegradation: 100 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301D  
 GLP: yes

**EPOXY RESIN SYSTEM MODIFIER:**

Biodegradability : Result: Not readily biodegradable.

**ALIPHATIC AMINE:**

Biodegradability : Result: Not readily biodegradable.  
 Biodegradation: < 10 %  
 Exposure time: 60 d  
 Method: OECD Test Guideline 301B

**EPOXY RESIN CURING AGENT:**

Biodegradability : Result: Not readily biodegradable.  
 Biodegradation: 4 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301D

**Bioaccumulative potential**

**Components:**

**ALIPHATIC DIAMINE:**

Partition coefficient: n- : log Pow: <= 1 (25 °C)  
 octanol/water pH: 9  
 GLP: yes

<b>ASHLAND®</b>		Page: 18
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

**Mobility in soil**

**Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

**Components:**

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

General advice : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
  
Dispose of in accordance with all applicable local, state and federal 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.

**SECTION 14. TRANSPORT INFORMATION**

**International transport regulations**

**REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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**U.S. DOT - ROAD**

UN 3267	Corrosive liquid, basic, organic, n.o.s. (POLYALKYLAMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)	8		II	LIMITED QUANTITY
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**U.S. DOT - RAIL**

**SAFETY DATA SHEET**

Revision Date: 05/25/2015

Print Date: 6/1/2015

SDS Number: 000000093543

SMC REPAIR

Version: 1.1

507290

UN	3267	Corrosive liquid, basic, organic, n.o.s. (POLYALKYLAMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)	8	II	LIMITED QUANTITY
----	------	--	---	----	------------------

**U.S. DOT - INLAND WATERWAYS**

UN	3267	Corrosive liquid, basic, organic, n.o.s. (POLYALKYLAMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)	8	II	LIMITED QUANTITY
----	------	--	---	----	------------------

**TRANSPORT CANADA - ROAD**

UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (POLYALKYLAMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)	8	II	LIMITED QUANTITY
----	------	--	---	----	------------------

**TRANSPORT CANADA - RAIL**

UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (POLYALKYLAMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)	8	II	LIMITED QUANTITY
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**TRANSPORT CANADA - INLAND WATERWAYS**

UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (POLYALKYLAMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)	8	II	LIMITED QUANTITY
----	------	--	---	----	------------------

**INTERNATIONAL MARITIME DANGEROUS GOODS**

UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (POLYALKYLAMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)	8	II	MARINE POLLUTANT:(EPOXY RESIN)
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

UN	3267	Corrosive liquid, basic, organic, n.o.s. (POLYALKYLAMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)	8	II	
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<b>ASHLAND®</b>		Page: 20
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

UN	3267	Corrosive liquid, basic, organic, n.o.s. (POLYALKYLAMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)	8	II
----	------	--	---	----

**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

UN	3267	LIQUIDO CORROSIVO, BASICO, ORGANICO, N.E.P. (POLYALKYLAMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)	8	II
----	------	---	---	----

**\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant	yes
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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.

**SECTION 15. REGULATORY INFORMATION**

**PART A**

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 313 Component(s)SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** WARNING! This product contains a chemical known to the State of California to cause cancer.  
 QUARTZ / SAND 14808-60-7  
 EPICHLOROHYDRIN 106-89-8

**PART B**

**SARA 311/312 Hazards** : Acute Health Hazard

<b>ASHLAND®</b>		Page: 21
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

**SARA 313 Component(s)** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** : WARNING! This product contains a chemical known to the State of California to cause cancer.  
 GLASS SPHERE 65997-17-3  
 QUARTZ / SAND 14808-60-7

**The components of this product are reported in the following inventories:**

- TSCA : On TSCA Inventory
- DSL : This product contains one or several components that are not on the Canadian DSL and have annual quantity limits.
- AUSTR : On the inventory, or in compliance with the inventory
- ENCS : Exempt
- KECL : On the inventory, or in compliance with the inventory
- PICCS : Not 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), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**Registration: Trade Secret**

Chemical Name	Identification number
POLYMER	800986-5211P
CALCIUM COMPOUND	254504001-5840
ALIPHATIC DIAMINE	800986-5576P
NPG MODIFIED POLYMER	800986-5578P
EPOXY RESIN SYSTEM MODIFIER	800986-5579P
PHYLOSILICATES	254504001-5903
ALIPHATIC AMINE	254504001-5601
EPOXY RESIN CURING AGENT	800986-5577P

**SECTION 16. OTHER INFORMATION**

**Further information**

Revision Date: 05/25/2015

**PART A**

## SAFETY DATA SHEET

Revision Date: 05/25/2015

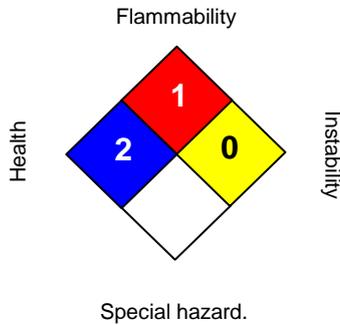
Print Date: 6/1/2015

SDS Number: 000000093543

SMC REPAIR

Version: 1.1

507290

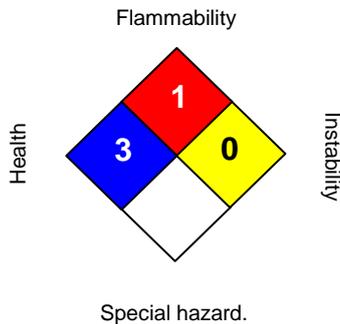
**NFPA:****HMIS III:**

<b>HEALTH</b>	<b>2*</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

**NFPA Flammable and Combustible Liquids Classification**

Combustible Liquid Class IIIB

**PART B****NFPA:****HMIS III:**

<b>HEALTH</b>	<b>3*</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

**NFPA Flammable and Combustible Liquids Classification**

Combustible Liquid Class IIIB

**Full text of H-Statements referred to under sections 2 and 3.****PART A**

H227	Combustible liquid.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

**PART B**

<b>ASHLAND®</b>		Page: 23
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

H227	Combustible liquid.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Sources of key data used to compile the Safety Data Sheet  
Ashland internal data including own and sponsored test reports  
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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 (1-800-325-3751).

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

ACGIH : American Conference of Industrial Hygienists  
BEI : Biological Exposure Index  
CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
FG : Food grade  
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
H-statement : Hazard Statement  
IATA : International Air Transport Association.  
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  
ISO : International Organization for Standardization  
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  
N.O.S.: Not Otherwise Specified  
OECD : Organization for Economic Co-operation and Development  
OEL : Occupational Exposure Limit  
P-Statement : Precautionary Statement  
PBT : Persistent , Bioaccumulative and Toxic  
PPE : Personal Protective Equipment  
STEL : Short-term exposure limit  
STOT : Specific Target Organ Toxicity  
TLV : Threshold Limit Value  
TWA : Time-weighted average  
vPvB : Very Persistent and Very Bioaccumulative  
WEL : Workplace Exposure Level

<b>ASHLAND®</b>		Page: 24
<b>SAFETY DATA SHEET</b>		Revision Date: 05/25/2015
		Print Date: 6/1/2015
		SDS Number: 000000093543
SMC REPAIR		Version: 1.1
507290		

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System

NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health

OSHA : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK : Right to Know

**WHMIS : Workplace Hazardous Materials Information System**