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		SDS Number: 000000093545
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29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : SEAM SEALER CONTROLLED FLOW 6

### 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

Acute toxicity (Oral) : Category 4  
 Acute toxicity (Dermal) : Category 4  
 Skin corrosion : Category 1A  
 Serious eye damage : Category 1  
 Respiratory sensitization : Category 1  
 Skin sensitization : Category 1  
 Reproductive toxicity : Category 2

### GHS Label element

Hazard pictograms : 

Signal Word : Danger

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Hazard Statements : Harmful if swallowed or in contact with skin.  
 Causes severe skin burns and eye damage.  
 May cause an allergic skin reaction.  
 Causes serious eye damage.  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 Suspected of damaging fertility or the unborn child.

Precautionary Statements : **Prevention:**  
 Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
 Wash skin thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 In case of inadequate ventilation wear respiratory protection.  
**Response:**  
 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
 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 exposed or concerned: Get medical advice/ attention.  
 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**  
 Substance / Mixture : Mixture

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**Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
POLYMER	800986-5211P	Skin Sens. 1B; H317	>= 50.00 - < 60.00
ACRYLATE	254504001-5696	Eye Irrit. 2A; H319 Skin Sens. 1; H317	>= 20.00 - < 30.00
NPG MODIFIED POLYMER	800986-5578P	Skin Irrit. 2; H315 Skin Sens. 1; H317	>= 1.50 - < 5.00
EPOXY RESIN SYSTEM MODIFIER	800986-5579P	Skin Irrit. 2; H315 Skin Sens. 1; H317	>= 1.50 - < 5.00

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

**PART B**

Substance / Mixture : Mixture

**Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
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

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

ALIKYLPHENOLS /		Acute Tox. 4; H302	48.46
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POLYAMINES MIXTURE		Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
NONYLPHENOL.	84852-15-3	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Repr. 2; H361	26.43

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#### 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.  
Call a physician or poison control centre immediately.  
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.

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- 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  
wheezing  
chest pain  
Harmful if swallowed or in contact with skin  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Suspected of damaging fertility or the unborn child.  
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  
Nitrogen oxides (NO<sub>x</sub>)  
corrosive vapors  
toxic fumes  
acid smoke and fumes  
Ammonia  
nitrogen oxides (NO<sub>x</sub>)

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- formaldehyde
- 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.  
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.

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## 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.

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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.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

**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  
Chemical resistant apron  
Safety shoes  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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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 : 212 °F / 100 °C  
Calculated Flash Point

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 : < 10.34 mmHg

Relative vapour density : No data available

Relative density : No data available

Density : No data available

Solubility(ies)

    Water solubility : No data available

    Solubility in other solvents : No data available

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



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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

Odour : No data available

Odour Threshold : No data available

pH : No data available

: No data available

Boiling point/boiling range : 378.9 °F / 192.7 °C

Flash point : 180 °F / 82 °C  
Calculated Flash Point

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : 0.8 %(V)  
Calculated Explosive Limit

Vapour pressure : 130.00 mmHg

Relative vapour density : No data available

Relative density : No data available

Density : No data available

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

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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  
Blanketing with inert gas.  
Freezing temperatures.  
Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.  
Exposure to moisture

Incompatible materials : Acids  
Amines  
Bases  
Oxidizing agents  
peroxides  
sodium hypochlorite  
strong reducing agents  
water

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

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## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

### Acute toxicity

Harmful if swallowed or in contact with skin

### Components:

POLYMER:

Acute oral toxicity : LD 50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 420

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Assessment: No adverse effect has been observed in acute oral toxicity tests.

Acute dermal toxicity : LD 50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

ALIPHATIC DIAMINE:  
Acute oral toxicity : LD50 (Rat, male): 1,690 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): 4.9 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): 1,870 mg/kg  
Method: OECD Test Guideline 402  
GLP: no  
Remarks: Information given is based on data obtained from similar substances.

NPG MODIFIED POLYMER:  
Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

EPOXY RESIN SYSTEM MODIFIER:  
Acute oral toxicity : LD50 (Rat): 4,500 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): 2,150 mg/kg

**Components:**

ALKYLPHENOLS / POLYAMINES MIXTURE:  
Acute oral toxicity : LD 50 (Rat): 1,300 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): 675 mg/kg

NONYLPHENOL.:  
Acute oral toxicity : LD 50 (Rat): 1,412 mg/kg

**Skin corrosion/irritation**

Causes severe burns.

**Product:**

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

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**Components:**

**POLYMER:**

Result: Slightly irritating to skin

**ACRYLATE:**

Result: Possibly 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

**Components:**

**ALKYLPHENOLS / POLYAMINES MIXTURE:**

Result: Corrosive to skin

**NONYLPHENOL.:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive after 3 minutes to 1 hour of exposure

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks: May cause irreversible eye damage.

**Components:**

**POLYMER:**

Result: Slightly irritating to eyes

**ACRYLATE:**

Result: Irritating to eyes

**ALIPHATIC DIAMINE:**

Species: Rabbit

Result: Corrosive to eyes

**NPG MODIFIED POLYMER:**

Result: Possibly irritating to eyes

**EPOXY RESIN SYSTEM MODIFIER:**

Result: Mildly irritating to eyes

**Components:**

**ALKYLPHENOLS / POLYAMINES MIXTURE:**

Result: Corrosive to eyes

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**NONYLPHENOL.:**

Species: Rabbit  
 Result: Corrosive to eyes  
 Method: OECD Test Guideline 405  
 GLP: no

**Respiratory or skin sensitisation**

Skin sensitisation: May cause an allergic skin reaction.  
 Respiratory sensitisation: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Components:**

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

**ACRYLATE:**

Result: May cause sensitization by skin contact.

**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.

**Components:**

**ALICYCLOPHENOLS / POLYAMINES MIXTURE:**  
 Assessment: May cause sensitisation by skin contact.

Assessment: May cause sensitisation by inhalation.

**NONYLPHENOL.:**

Test Type: Maximisation Test (GPMT)  
 Exposure routes: Dermal  
 Species: Guinea pig  
 Assessment: Did not cause sensitisation on laboratory animals.  
 Method: OECD Test Guideline 406  
 GLP: no

**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

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Metabolic activation: with metabolic activation  
Result: negative

: 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

: 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

**Components:**

**NONYLPHENOL.:**

Genotoxicity in vitro : Test Type: Ames test  
Test species: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative  
GLP: no

: Test Type: Chromosome aberration test in vitro  
Test species: Chinese hamster ovary cells  
Result: negative  
GLP: no

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: Test Type: In vitro mammalian cell gene mutation test  
 Test species: Chinese hamster fibroblasts  
 Method: OECD Test Guideline 476  
 Result: negative  
 GLP: yes

: Test Type: comet assay  
 Test species: Chinese hamster ovary cells  
 Result: positive  
 GLP: no

Genotoxicity in vivo : Test Type: chromosome aberration assay  
 Test species: Mouse  
 Cell type: Bone marrow  
 Method: OECD Test Guideline 474  
 Result: negative  
 GLP: yes

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**Components:**

**NONYLPHENOL:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.

**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.

**Further information**

**Product:**

Remarks: No data available

**Carcinogenicity:**

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**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.

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**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  
 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.



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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

**ALKYLPHENOLS / POLYAMINES MIXTURE:**

Toxicity to fish : LC 50 (Bluegill (Lepomis macrochirus)): 0.1351 mg/l  
 Exposure time: 96 h

**NONYLPHENOL:**

Toxicity to fish : LC 50 (Fish): 0.017 - 5.44 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Aquatic invertebrates): 0.02 - 0.596 mg/l  
 Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 1.3 mg/l  
 End point: Growth inhibition  
 Exposure time: 96 h  
 Test Type: static test  
 GLP: yes

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.006 mg/l  
 Exposure time: 91 d  
 End point: Growth rate  
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : (Daphnia magna (Water flea)): 0.024 mg/l  
 Exposure time: 21 d  
 End point: Reproduction Test  
 Test Type: semi-static test

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**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.

**Bioaccumulative potential**

**Components:**

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

NONYLPHENOL.:  
 Partition coefficient: n- : log Pow: 5.4 (23 °C)  
 octanol/water pH: 5.7  
 Method: OECD Test Guideline 117

**Mobility in soil**

**Components:**

No data available

**Other adverse effects**

No data available

**Product:**

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

**Components:**

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### 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.
-----------	----------------------	---------------	--------------------	---------------	------------------------------

#### U.S. DOT - ROAD

UN	3267	Corrosive liquid, basic, organic, n.o.s.	8		II
----	------	--	---	--	----

#### U.S. DOT - RAIL

UN	3267	Corrosive liquid, basic, organic, n.o.s.	8		II
----	------	--	---	--	----

#### U.S. DOT - INLAND WATERWAYS

UN	3267	Corrosive liquid, basic, organic, n.o.s.	8		II
----	------	--	---	--	----

#### TRANSPORT CANADA - ROAD

UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	8		II
----	------	--	---	--	----

#### TRANSPORT CANADA - RAIL

UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	8		II
----	------	--	---	--	----

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**TRANSPORT CANADA - INLAND WATERWAYS**

UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	8	II
----	------	---	---	----

**INTERNATIONAL MARITIME DANGEROUS GOODS**

UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	8	II	MARINE POLLUTANT:( EPOXY RESIN)
----	------	---	---	----	--

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

UN	3267	Corrosive liquid, basic, organic, n.o.s.	8	II
----	------	---	---	----

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

UN	3267	Corrosive liquid, basic, organic, n.o.s.	8	II
----	------	---	---	----

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

UN	3267	LIQUIDO CORROSIVO, BASICO, ORGANICO, N.E.P.	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)** : 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.

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EPICHLOROHYDRIN 106-89-8

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

TOLUENE 108-88-3

EPICHLOROHYDRIN 106-89-8

**PART B**

**SARA 311/312 Hazards** : Fire Hazard  
Acute Health Hazard  
Chronic 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** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL.
- 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), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**Registration: Trade Secret**

Chemical Name	Identification number
POLYMER	800986-5211P
ACRYLATE	254504001-5696
ALIPHATIC DIAMINE	800986-5576P
NPG MODIFIED POLYMER	800986-5578P
EPOXY RESIN SYSTEM MODIFIER	800986-5579P

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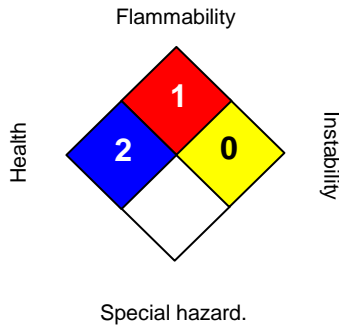
### SECTION 16. OTHER INFORMATION

#### Further information

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#### PART A

#### NFPA:



#### HMIS III:

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

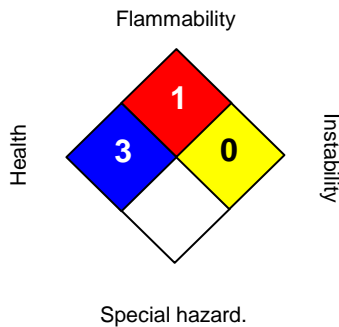
0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

#### 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 IIIA

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

#### PART A

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H227	Combustible liquid.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
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.

#### **PART B**

H227	Combustible liquid.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
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.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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

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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

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**