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		SDS Number: 000000263072
Pliogrip™ 5770P/220 ADHESIVE ™ Trademark, Ashland or its subsidiaries, registered in various countries 870115		Version: 1.0

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Pliogrip™ 5770P/220
ADHESIVE
™ Trademark, Ashland or its subsidiaries, registered in
various countries

Recommended use of the chemical and restrictions on use

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

GHS Classification

Skin corrosion : Category 1

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

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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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

PART A

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
POLYMER	254504001-6320	Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	13.30
ORGANIC COMPOUND	254504001-6318	Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317	2.34

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

BISPHENOL A-	25068-38-6	Skin Sens. 1B; H317	52.00
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EPICHLOROHYDRIN POLYMER			
TALC	14807-96-6	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	4.00
3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER	2530-83-8	Eye Dam. 1; H318	2.00

PART B

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
POLYMER	254504001-6317	Skin Irrit. 2; H315 Skin Sens. 1; H317	>= 10.00 - < 15.00
ORGANIC COMPOUND	254504001-6322	Acute Tox. 4; H302 Acute Tox. 3; H311 Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 1.00 - < 1.50
The identity of one or more component(s) is being withheld under business confidentiality.			
DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER	4246-51-9	Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1; H317	20.00

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POLYOXYPROPYLENEDIAMINE	9046-10-0	Skin Corr. 1C; H314 Eye Dam. 1; H318	20.00
POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.,.ALPHA.',.ALPHA."- 1,2,3- PROPANETRIYLTRIS[.OMEGA.- (2-AMINOMETHYLETHOXY)-	64852-22-8	Skin Irrit. 2; H315 Eye Dam. 1; H318	20.00
2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE, 1-C	68683-29-4	Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Skin Sens. 1; H317	10.00
2,4,6- TRIS(DIMETHYLAMINOMETHYL) PHENOL	90-72-2	Skin Corr. 1; H314 Eye Dam. 1; H318	5.39
TALC	14807-96-6	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	5.00

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 breathed in, move person into fresh air. Keep patient warm and at rest. If unconscious place in recovery position and seek medical advice.

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If symptoms persist, call a physician.

- | | |
|---|---|
| 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)
Drowsiness
May cause an allergic skin reaction.
Causes serious eye damage.
Causes severe burns. |
| Notes to physician | : No hazards which require special first aid measures. |

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 ₂)
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 |

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Nitrogen oxides (NOx)
 Ammonia
 formaldehyde
 nitrogen oxides (NOx)
 sulfur oxides
 acid vapors
 carboxylic acids
 Methanol
 silicone polymers
 silicon dioxide
 various hydrocarbons
 Hydrogen

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
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.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : 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.

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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.

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
TALC	14807-96-6	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

PART B

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
TALC	14807-96-6	TWA	2 mg/m3 Respirable fraction.	ACGIH
		REL	2 mg/m3 Respirable.	NIOSH/GUID E
		TWA	0.1 mg/m3	Z3

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		TWA	Respirable. 0.3 mg/m3 Total dust.	Z3
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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 Hand protection
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses

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.
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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PART A

Appearance : paste

Physical state : liquid

Colour : dark violet

Odour : Faint

Odour Threshold : No data available

pH : Not applicable

Melting point/range : No data available

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Boiling point/boiling range : No data available

Flash point : > 220 °F / > 104 °C
Method: Closed Cup

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 : No data available

Relative vapour density : No data available

Relative density : 1.16

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

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

Melting point/range : No data available

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Boiling point/boiling range	: No data available
Flash point	: > 219 °F / > 104 °C Method: Closed Cup
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	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 1.06 g/cm ³ (23 °C)
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

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	: Exposure to air. Exposure to moisture

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

Hazardous decomposition products : carbon dioxide and carbon monoxide
formaldehyde-like
Hydrocarbons
Methanol
Nitrogen oxides (NOx)
phenols
silicone polymers
Sulphur oxides
Ammonia
silicon dioxide
various hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Not classified based on available information.

Components:

POLYMER:

Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg

POLYMER:

Acute oral toxicity : LD50 (Rat): > 15.4 g/kg
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rabbit): > 3 g/kg
Remarks: Information given is based on data obtained from similar substances.

ORGANIC COMPOUND:

Acute oral toxicity : LD50 (Rat): > 2,000 - < 5,000 mg/kg
Method: OECD Test Guideline 401

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Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402

ORGANIC COMPOUND:

Acute oral toxicity : LD 50 (Rat): 2,097 mg/kg
Assessment: The component/mixture is classified as acute oral toxicity, category 4.

Acute dermal toxicity : LD 50 (Rabbit): 866 mg/kg

Components:

BISPHENOL A-EPICHLOROHYDRIN POLYMER:

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

DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER:

Acute oral toxicity : LD 50 (Rat): ca. 3,160 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): Estimated > 2,500 mg/kg

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

POLYOXYPROPYLENEDIAMINE:

Acute oral toxicity : LD50 (Rat): 2,885 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): 2,979 mg/kg
Method: OECD Test Guideline 402

POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.,.ALPHA.,.ALPHA."-1,2,3-PROPANETRIYLTRIS[.OMEGA.-(2-AMINOMETHYLETHOXY)-:

Acute oral toxicity : LD50 (Rat): 2,690 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 12,500 mg/kg

2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE, 1-C:

Acute oral toxicity : LD50 (Rat): > 15 g/kg

Acute dermal toxicity : LD50 (Rabbit): > 3 g/kg

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL:

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

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3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

Acute oral toxicity : LD 50 (Rat): 8,025 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC 50 (Rat): > 5.3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD 50 (Rabbit): 4,250 mg/kg

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: No skin irritation

POLYMER:

Result: Irritating to skin.

Remarks: Information given is based on data obtained from similar substances.

ORGANIC COMPOUND:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive after 3 minutes to 1 hour of exposure

ORGANIC COMPOUND:

Result: Corrosive to skin

Components:

BISPHENOL A-EPICHLOROHYDRIN POLYMER:

Result: Slightly irritating to skin

DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER:

Result: Corrosive to skin

POLYOXYPROPYLENEDIAMINE:

Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.,.ALPHA.,.ALPHA."-1,2,3-PROPANETRIYLTRIS[.OMEGA.-(2-AMINOMETHYLETHOXY)-:

Result: Irritating to skin.

2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE, 1-C:

Result: Irritating to skin.

TALC:

Result: Possibly irritating to skin

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2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL:
Result: Corrosive to skin

3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:
Result: Slightly irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

Components:

POLYMER:

Result: No eye irritation

POLYMER:

Result: Slightly irritating to eyes

Remarks: Information given is based on data obtained from similar substances.

ORGANIC COMPOUND:

Result: Corrosive to eyes

ORGANIC COMPOUND:

Result: Corrosive to eyes

Components:

BISPHENOL A-EPICHLOROHYDRIN POLYMER:

Result: Slightly irritating to eyes

DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER:

Result: Corrosive to eyes

POLYOXYPROPYLENEDIAMINE:

Result: Corrosive to eyes

POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.,.ALPHA.',.ALPHA."-1,2,3-
PROPANETRIYLTRIS[.OMEGA.-(2-AMINOMETHYLETHOXY)-]:

Result: Corrosive to eyes

2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE, 1-C:

Result: Irritating to eyes.

TALC:

Result: Possibly irritating to eyes

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL:

Result: Corrosive to eyes

3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

Result: Irreversible effects on the eye

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Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Components:

POLYMER:

Assessment: May cause sensitisation by skin contact.

POLYMER:

Species: Guinea pig

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 406

ORGANIC COMPOUND:

Test Type: Local lymph node assay

Species: Mouse

Assessment: The product is a skin sensitiser, sub-category 1B.

Method: OECD Test Guideline 429

ORGANIC COMPOUND:

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Assessment: May cause sensitization by skin contact.

Method: OECD Test Guideline 406

Components:

BISPHENOL A-EPICHLOROHYDRIN POLYMER:

Test Type: Local lymph node assay

Method: OECD Test Guideline 429

Result: The product is a skin sensitiser, sub-category 1B.

DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER:

Assessment: May cause sensitization by skin contact.

2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE, 1-C:

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 406

3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

ORGANIC COMPOUND:

Genotoxicity in vitro

: Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

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Components:

BISPHENOL A-EPOCHLOROHYDRIN 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
- :
- 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

POLYOXYPROPYLENEDIAMINE:

- Genotoxicity in vitro :
- Test Type: Ames test
 - Test species: Salmonella typhimurium
 - Metabolic activation: with and without metabolic activation
 - Method: OECD Test Guideline 471
 - Result: negative
- Genotoxicity in vivo :
- Test Type: chromosome aberration assay
 - Test species: Mouse
 - Cell type: Bone marrow
 - Method: OECD Test Guideline 474
 - Result: negative

3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

- Genotoxicity in vitro :
- Test Type: Ames test
 - Test species: Salmonella typhimurium
 - Metabolic activation: with and without metabolic activation
 - Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
 - Result: positive
- :
- Test species: mouse lymphoma cells
 - Metabolic activation: with and without metabolic activation
 - Method: OECD Test Guideline 476
 - Result: positive
- :
- Test species: Chinese hamster ovary cells
 - Method: OECD Test Guideline 479
 - Result: positive
- Genotoxicity in vivo :
- Test Type: In vivo micronucleus test
 - Test species: Mouse (male and female)

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Cell type: Bone marrow
Application Route: Intraperitoneal
Method: OECD Test Guideline 474
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.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

ORGANIC COMPOUND:

Species: Rat

NOAEL: 152 mg/kg

Application Route: Oral

Method: OECD Test Guideline 422

Species: Rat

NOAEL: 1,000 mg/kg

Application Route: Dermal

Method: OECD Test Guideline 410

Aspiration toxicity

Not classified based on available information.

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.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

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Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 2; Toxic to aquatic life.

Chronic aquatic toxicity : Chronic aquatic toxicity Category 2; Toxic to aquatic life with long lasting effects.

POLYMER:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Aquatic invertebrates): > 1,000 mg/l
Exposure time: 48 h
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae : EC50 (Green algae): > 1,000 mg/l
Exposure time: 72 h
Remarks: Information given is based on data obtained from similar substances.

ORGANIC COMPOUND:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.21 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (Daphnia magna)): 0.64 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 1.4 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: semi-static test
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.11 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: semi-static test
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

ORGANIC COMPOUND:

Toxicity to fish : LC 50 (Fathead minnow (Pimephales promelas)): 2,190 mg/l
Exposure time: 96 h
Test Type: static test

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (*Daphnia magna*)): 58 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (*Pseudokirchneriella subcapitata* (green algae)): > 1,000 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

BISPHENOL A-EPICHLOROHYDRIN 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

DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER:

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.

POLYOXYPROPYLENEDIAMINE:

Toxicity to fish : EC 50 (*Oncorhynchus mykiss* (rainbow trout)): 772 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (*Daphnia magna*)): 80 mg/l
Exposure time: 48 h
Test Type: static test

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Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (microalgae)): 15 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.32 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.3.

POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.,.ALPHA.,.ALPHA."-1,2,3-PROPANETRIYLTRIS[.OMEGA.-(2-AMINOMETHYLETHOXY)-:

Toxicity to fish : LC50 (Fish): 68 mg/l
Exposure time: 96 h

2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE, 1-C:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Aquatic invertebrates): > 1,000 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Green algae): > 1,000 mg/l
Exposure time: 72 h

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL:

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

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

3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 55 mg/l
Exposure time: 96 h
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 324 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 350 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other : NOEC (Daphnia (water flea)): 100 mg/l

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aquatic invertebrates
(Chronic toxicity)

Exposure time: 21 d

Persistence and degradability

POLYMER:

Biodegradability : Result: Not readily biodegradable.

ORGANIC COMPOUND:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

ORGANIC COMPOUND:

Biodegradability : aerobic
Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

BISPHENOL A-EPICHLOROHYDRIN 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.

DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER:

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

POLYOXYPROPYLENEDIAMINE:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.,.ALPHA.',.ALPHA."-1,2,3- PROPANETRIYLTRIS[.OMEGA.-(2-AMINOMETHYLETHOXY)-]:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: < 5 %
Exposure time: 28 d

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2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE, 1-C:

Biodegradability : Result: Not readily biodegradable.

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL:

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

3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

Biodegradability : aerobic
Result: Not readily biodegradable.
Biodegradation: 37 %
Exposure time: 28 d
GLP: yes

Bioaccumulative potential

ORGANIC COMPOUND:

Bioaccumulation : Bioconcentration factor (BCF): < 7
Method: OECD Test Guideline 305C
Remarks: Information given is based on data obtained from
similar substances.

POLYOXYPROPYLENEDIAMINE:

Partition coefficient: n- : log Pow: 1.34
octanol/water Method: OECD Test Guideline 117

3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

Partition coefficient: n- : log Pow: Estimated 0.5 (20 °C)
octanol/water

Mobility in soil

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., Toxic to aquatic life with
long lasting effects.

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.

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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 2735	Amines, liquid, corrosive, n.o.s. (ALIPHATIC AMINE, POLYOXYPROPYLENEDIAMINE)	8		II	LIMITED QUANTITY
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U.S. DOT - RAIL

UN 2735	Amines, liquid, corrosive, n.o.s. (ALIPHATIC AMINE, POLYOXYPROPYLENEDIAMINE)	8		II	LIMITED QUANTITY
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U.S. DOT - INLAND WATERWAYS

UN 2735	Amines, liquid, corrosive, n.o.s. (ALIPHATIC AMINE, POLYOXYPROPYLENEDIAMINE)	8		II	LIMITED QUANTITY
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TRANSPORT CANADA - ROAD

UN 2735	AMINES, LIQUID, CORROSIVE, N.O.S. (ALIPHATIC AMINE, POLYOXYPROPYLENEDIAMINE)	8		II	
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TRANSPORT CANADA - RAIL

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UN	2735	AMINES, LIQUID, CORROSIVE, N.O.S. (ALIPHATIC AMINE, POLYOXYPROPYLENEDIAMI NE)	8	II

TRANSPORT CANADA - INLAND WATERWAYS

UN	2735	AMINES, LIQUID, CORROSIVE, N.O.S. (ALIPHATIC AMINE, POLYOXYPROPYLENEDIAMI NE)	8	II

INTERNATIONAL MARITIME DANGEROUS GOODS

UN	2735	AMINES, LIQUID, CORROSIVE, N.O.S. (ALIPHATIC AMINE, POLYOXYPROPYLENEDIAMI NE)	8	II	MARINE POLLUTANT:(BISPHENOL A- EPICHLOROH YDRIN POLYMER)

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	2735	Amines, liquid, corrosive, n.o.s. (ALIPHATIC AMINE, POLYOXYPROPYLENEDIAMI NE)	8	II

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	2735	Amines, liquid, corrosive, n.o.s. (ALIPHATIC AMINE, POLYOXYPROPYLENEDIAMI NE)	8	II

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	2735	AMINAS LIQUIDAS, CORROSIVAS, N.E.P. (ALIPHATIC AMINE, POLYOXYPROPYLENEDIAMI NE)	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
 ACRYLONITRILE 107-13-1
 1,3, BUTADIENE 106-99-0
 WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
 METHANOL 67-56-1
 1,3, BUTADIENE 106-99-0

PART B

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
 PROPYLENE OXIDE 75-56-9

The components of this product are reported in the following inventories:
 TSCA : On TSCA Inventory

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DSL	: This product contains one or several components that are not on the Canadian DSL and have annual quantity limits.
AICS	: Not in compliance with the inventory
ENCS	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not 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), TCSI (Taiwan), TSCA (USA)

Registration: Trade Secret

Chemical Name	Identification number
POLYMER	254504001-6320
POLYMER	254504001-6317
ORGANIC COMPOUND	254504001-6318
ORGANIC COMPOUND	254504001-6322

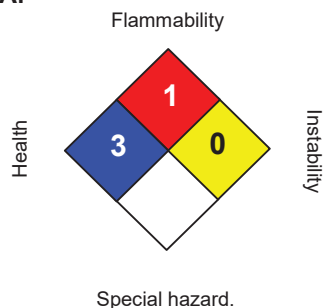
SECTION 16. OTHER INFORMATION

Further information

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PART A

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0

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

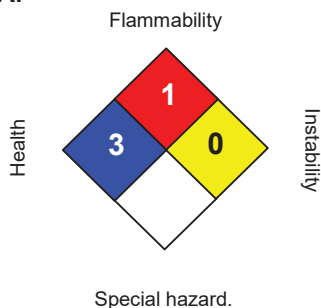
NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

PART B

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NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0

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

PART A

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

PART B

H302	Harmful if swallowed.
H311	Toxic 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.
H319	Causes serious eye 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 :

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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

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