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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Pliogrip™ DOOR SKIN 30/220 EPOXY

ADHESIVE

™ Trademark, Ashland or its subsidiaries, registered in

various countries

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Adhesives

Industrial chemical

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

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion : Category 1

Serious eye damage : Category 1

Skin sensitization : Category 1

Carcinogenicity : Category 1A

Reproductive toxicity : Category 1B

Specific target organ

systemic toxicity - repeated

exposure

: Category 2 (Skin, Nervous system, Liver, Kidney)

GHS Label element

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Hazard pictograms







Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Causes serious eye damage.

May cause cancer.

May damage fertility or the unborn child.

May cause damage to organs (Skin, Nervous system, Liver,

Kidney) through prolonged or repeated exposure.

Precautionary Statements

: Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood.

Do not breathe 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

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 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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

PART A

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Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
Locustina	10-1-01001	l=	1
POLYMER	254504001-6266	Eye Irrit. 2A; H319	>= 30.00 - < 40.00

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

SILICA VITREOUS	60676-86-0		24.00
TRIETHYLENETETRAMINE	112-24-3	Acute Tox. 4; H302	6.40
		Acute Tox. 4; H312	
		Skin Corr. 1; H314	
		Eye Dam. 1; H318	
		Skin Sens. 1; H317	
PHENOL	108-95-2	A . T . O . LIOO 4	5.44
		Acute Tox. 3; H301	
		Acute Tox. 3; H331	
		Acute Tox. 3; H311	
		Skin Corr. 1; H314	
		Eye Dam. 1; H318	
		STOT RE 2; H373	
0.4.0	00.70.0	01: 0 4 11044	4.40
2,4,6- TRIS(DIMETHYLAMINOMETHYL	90-72-2	Skin Corr. 1; H314	4.49
)PHENOL		Eye Dam. 1; H318	
METHYLPENTAMETHYLENEDIA MINE	15520-10-2	Flam. Liq. 4; H227	2.40
IVIIIVE		Acute Tox. 4; H302	

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		Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335	
IMIDAZOLE	288-32-4	Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318 Repr. 1B; H360	2.00
CRISTOBALITE	14464-46-1	Carc. 1A; H350 STOT RE 1; H372	0.21

PART B

Substance / Mixture : Mixture

Hazardous components

nazardous components			
Chemical Name	CAS-No.	Classification	Concentration (%)
POLYMER	800986-5211P	Skin Sens. 1B; H317	>= 70.00 - < 80.00
POLYMER	254504001-6268	Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Skin Sens. 1; H317	>= 1.50 - < 5.00

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

SILICA VITREOUS	60676-86-0		5.00
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3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER	2530-83-8	Eye Dam. 1; H318	2.00
GLYCIDYL (C12-C14 ALKYL) ETHER	68609-97-2	Skin Irrit. 2; H315 Skin Sens. 1; H317	2.00
CARBON BLACK	1333-86-4	Carc. 2; H351	0.40

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.

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Do not induce vomiting. Phenol concentrations greater than 1.5% produce irritation and greater than 5% are corrosive; vomiting can cause further damage to the mouth and throat. Do not dilute the swallowed material, since this may enhance its absorption. Seek immediate medical attention. If possible, do not leave the individual unattended. Vomiting and diarrhea may occur spontaneously.

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

Drowsiness

low body temperature irregular heartbeat

cyanosis (causes blue coloring of the skin and nails from lack of oxygen)

lung edema (fluid buildup in the lung tissue)

Convulsions respiratory failure Difficulty in breathing

May cause an allergic skin reaction.

Causes serious eye damage.

May cause cancer.

May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated

exposure.

Causes severe burns.

Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.

Pulmonary edema may be delayed.

Notes to physician

Phenol adsorbs to activated charcoal, and it maybe preferable to ipecac-induced emesis because seizures or coma may onset rapidly and because of the corrosive effects of phenol. A usual activated charcoal dose in adults is 30-100 g and in children is 15-30 g. Activated charcoal should be administered with, or followed by, a cathartic. If endoscopy is planned, charcoal may obscure visualization of affected areas. Gastric lavage may be indicated if it is performed soon after ingestion or in patients who are comatose or at risk of seizures. Monitor for seizures, metabolic acidosis and ventricular dysrhythmias.

SECTION 5. FIREFIGHTING MEASURES

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Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

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 Hydrogen Ammonia

Nitrogen oxides (NOx)

Hydrogen cyanide (hydrocyanic acid)

nitrogen oxides (NOx)

formaldehyde acid vapors Aldehydes carboxylic acids

Methanol

silicone polymers silicon dioxide

various hydrocarbons

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.

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.

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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.

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
SILICA VITREOUS	60676-86-0	REL	6 mg/m3	NIOSH/GUID E
		TWA	0.8 mg/m3	Z3
		TWA	0.1 mg/m3 Respirable dust.	TN OEL
		TWA	0.1 mg/m3 Respirable dust.	Z1A
		TWA PEL	0.1 mg/m3	US CA OEL

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			Respirable dust.	
		ST ESL	27 μg/m3 Particulate.	TX ESL
		AN ESL	2 μg/m3 Particulate.	TX ESL
TRIETHYLENETETRAMINE	112-24-3	TWA	1 ppm 6 mg/m3	WEEL
PHENOL	108-95-2	TWA	5 ppm	ACGIH
		REL	5 ppm 19 mg/m3	NIOSH/GUID E
		Ceil_Time	15.6 ppm 60 mg/m3	NIOSH/GUID E
		PEL	5 ppm 19 mg/m3	OSHA_TRA NS
		TWA	5 ppm 19 mg/m3	TN OEL
CRISTOBALITE	14464-46-1	TWA	0.025 mg/m3 Respirable fraction.	ACGIH
		TWA	0.15 mg/m3 Total dust.	Z3
		TWA	0.05 mg/m3 Respirable.	Z3
		TWA	0.05 mg/m3 Respirable dust.	Z1A
		REL	5 mg/m3 Fiber, total	NIOSH/GUID E
_		REL	5 mg/m3 fibers, total dust	NIOSH/GUID E
		REL	3 fibre/cm3 Dust	NIOSH/GUID E
		REL	3 fibre/cm3 Fiber.	NIOSH/GUID E

PART B

IANID				
Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
SILICA VITREOUS	60676-86-0	REL	6 mg/m3	NIOSH/GUID E
		TWA	0.8 mg/m3	Z3
		TWA	0.1 mg/m3 Respirable dust.	TN OEL
		TWA	0.1 mg/m3 Respirable dust.	Z1A
		TWA PEL	0.1 mg/m3 Respirable dust.	US CA OEL
		ST ESL	27 μg/m3	TX ESL

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			Particulate.	
		AN ESL	2 μg/m3 Particulate.	TX ESL
CARBON BLACK	1333-86-4	REL	0.1 mg/m3	NIOSH/GUID E
		REL	3.5 mg/m3	NIOSH/GUID E
		PEL	3.5 mg/m3	OSHA_TRA NS
		TWA	3 mg/m3 Inhalable fraction.	ACGIH

Biological occupational exposure limits PART A

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio n	Basis
PHENOL	108-95-2	Phenol with hydrolysis	Creatinine in urine	Samplin g time: End of shift.	250 mg/g	
Remarks:	Background, Nonspecific					

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 airpurifying respirators is limited. Use a positive pressure, airsupplied 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.

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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

Physical state : liquid

Colour : tan

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : $> 212 \,^{\circ}\text{F} / > 100 \,^{\circ}\text{C}$

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 : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1.0 g/cm3 (23 °C)

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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 : black

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : $> 212 \,^{\circ}\text{F} / > 100 \,^{\circ}\text{C}$

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 : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1.1 g/cm3 (23 °C)

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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 : excessive heat

Exposure to air. Exposure to moisture

Incompatible materials : None known.

1,3-butadiene

Acids
acrylates
Alcohols
Aldehydes
aluminum
Amines
Bases
brass
bronze
Copper
Copper alloys
fluorides

halogenated hydrocarbons

halogens Iron Ketones Lead

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magnesium Nickel nitrates

organic absorbents such as sawdust, peat moss, ground corn

cobs, etc.
Oxidizing agents
peroxides

Reducing agents strong alkalis

water Zinc Peroxides

Hazardous decomposition

products acid vapors
Aldehydes

carbon dioxide and carbon monoxide

formaldehyde-like Hydrocarbons Methanol

nitrogen compounds Nitrogen oxides (NOx)

phenols

silicone polymers volatile amines Ammonia silicon dioxide

various hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure

Inhalation
Skin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

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.

TRIETHYLENETETRAMINE:

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Acute oral toxicity : LD 50 (Rat): 1,670 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): 1,465 mg/kg

PHENOL:

Acute oral toxicity : LD 50 (Rat): 317 mg/kg

LD 50 (Mouse): 270 mg/kg

Assessment: The component/mixture is classified as acute

oral toxicity, category 3.

Acute inhalation toxicity : Assessment: The component/mixture is classified as acute

inhalation toxicity, category 3.

Acute dermal toxicity : LD 50 (Rabbit): 850 mg/kg

LD50 (Rat, females): 660 mg/kg Method: OECD Test Guideline 402

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

Acute oral toxicity : LD 50 (Rat): 2,169 mg/kg

Method: OECD Test Guideline 401

POLYMER:

Acute oral toxicity : LD 50 (Rat): 2,020 mg/kg

METHYLPENTAMETHYLENEDIAMINE:

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.

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

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GLYCIDYL (C12-C14 ALKYL) ETHER:

Acute oral toxicity : LD50 (Rat, male): 26.8 g/kg

IMIDAZOLE:

Acute oral toxicity : LD 50 (Rat): ca. 970 mg/kg

CARBON BLACK:

Acute oral toxicity : LD 50 (Rat): > 10,000 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): > 3 g/kg

Skin corrosion/irritation

Causes severe burns.

Product:

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

damage.

Components:

BISPHENOL A-EPICHLOROHYDRIN POLYMER:

Result: Slightly irritating to skin

SILICA VITREOUS:

Result: Possibly irritating to skin

TRIETHYLENETETRAMINE:

Result: Corrosive after 4 hours or less of exposure

PHENOL:

Result: Corrosive to skin

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

Result: Corrosive to skin

POLYMER:

Result: Irritating to skin

METHYLPENTAMETHYLENEDIAMINE:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive after 3 minutes or less of exposure

3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

Result: Slightly irritating to skin

GLYCIDYL (C12-C14 ALKYL) ETHER:

Species: Rabbit

Method: Patch Test 24 Hrs. Result: Irritating to skin

IMIDAZOLE: Species: Rabbit

Result: Corrosive to skin

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CARBON BLACK:

Result: Not irritating to skin

CRISTOBALITE:

Result: Possibly irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

Components:

BISPHENOL A-EPICHLOROHYDRIN POLYMER:

Result: Slightly irritating to eyes

SILICA VITREOUS:

Result: Possibly irritating to eyes

TRIETHYLENETETRAMINE: Result: Corrosive to eyes

PHENOL:

Result: Corrosive to eyes

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

Result: Corrosive to eyes

POLYMER:

Result: Irritating to eyes

METHYLPENTAMETHYLENEDIAMINE:

Species: Rabbit

Result: Corrosive to eyes

3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

Result: Irreversible effects on the eye

GLYCIDYL (C12-C14 ALKYL) ETHER:

Species: Rabbit

Result: Mildly irritating to eyes Method: OECD Test Guideline 405

IMIDAZOLE: Species: Rabbit

Result: Corrosive to eyes

CARBON BLACK:

Result: Slightly irritating to eyes

CRISTOBALITE:

Result: Possibly irritating to eyes

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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:

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.

TRIETHYLENETETRAMINE:

Assessment: May cause sensitization by skin contact.

POLYMER:

Assessment: May cause sensitization by skin contact.

METHYLPENTAMETHYLENEDIAMINE:

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

GLYCIDYL (C12-C14 ALKYL) ETHER:

Test Type: Buehler Test Species: Guinea pig

Assessment: May cause sensitization by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Components:

BISPHENOL A-EPICHLOROHYDRIN 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

TRIETHYLENETETRAMINE:

Genotoxicity in vitro : Result: Positive results were obtained in some in vitro tests.

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Genotoxicity in vivo : Test Type: Micronucleus test

Test species: Mouse Result: negative

PHENOL:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test species: Chinese hamster ovary cells Metabolic activation: with metabolic activation

Method: OECD Test Guideline 473

Result: positive

Test Type: Micronucleus test

Test species: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: positive

Genotoxicity in vivo : Test Type: Micronucleus test

Test species: Mouse (male and female)
Application Route: Intraperitoneal injection

Method: OECD Test Guideline 474

Result: positive

METHYLPENTAMETHYLENEDIAMINE:

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.

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

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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)

Cell type: Bone marrow

Application Route: Intraperitoneal Method: OECD Test Guideline 474

Result: positive

GLYCIDYL (C12-C14 ALKYL) ETHER:

Genotoxicity in vitro : Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: Positive results were obtained in some in vitro tests.

GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test

Test species: Mouse Cell type: Bone marrow

Method: OECD Test Guideline 474

Result: negative GLP: yes

IMIDAZOLE:

Genotoxicity in vitro : Test Type: unscheduled DNA synthesis assay

Test species: rat hepatocytes Method: OECD Test Guideline 482

Result: negative

: Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative GLP: yes

: Test Type: In vitro mammalian cell gene mutation test

Test species: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

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Genotoxicity in vivo : Test Type: Micronucleus test

Test species: Mouse

Method: OECD Test Guideline 474

Result: negative GLP: yes

Carcinogenicity
May cause cancer.
Components:
CARBON BLACK:

Carcinogenicity - : Limited evidence of carcinogenicity in inhalation studies with

Assessment animals.

CRISTOBALITE:

Carcinogenicity - : Human carcinogen.

Assessment

Reproductive toxicity

May damage fertility or the unborn child.

Components:

TRIETHYLENETETRAMINE:

Effects on foetal : Species: Rat

development Application Route: Oral

Developmental Toxicity: No observed adverse effect level F1:

750 mg/kg body weight

IMIDAZOLE:

Reproductive toxicity - : Clear evidence of adverse effects on development, based on

Assessment animal experiments.

STOT - single exposure

Not classified based on available information.

Components:

METHYLPENTAMETHYLENEDIAMINE:

Exposure routes: Inhalation
Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

STOT - repeated exposure

May cause damage to organs (Skin, Nervous system, Liver, Kidney) through prolonged or repeated exposure.

Components:

PHENOL:

Target Organs: Skin

Assessment: May cause damage to organs through prolonged or repeated exposure.

Target Organs: Nervous system

Assessment: May cause damage to organs through prolonged or repeated exposure.

Target Organs: Liver

Assessment: May cause damage to organs through prolonged or repeated exposure.

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Target Organs: Kidney

Assessment: May cause damage to organs through prolonged or repeated exposure.

CRISTOBALITE:

Exposure routes: inhalation (dust/mist/fume) Target Organs: Respiratory system, Kidney

Assessment: Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

TRIETHYLENETETRAMINE:

Species: Mouse NOAEL: 92 mg/kg Application Route: Oral Exposure time: 90-day

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

Components:

SILICA VITREOUS: Remarks: Lung

PHENOL:

Remarks: Central nervous system

Remarks: Blood

CRISTOBALITE: Remarks: Lung

Carcinogenicity:

IARC Group 1: Carcinogenic to humans

CRISTOBALITE 14464-46-1

Group 2B: Possibly carcinogenic to humans

CARBON BLACK 1333-86-4

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 Known to be human carcinogen

CRISTOBALITE 14464-46-1

Reasonably anticipated to be a human carcinogen

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CRISTOBALITE 14464-46-1

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

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

TRIETHYLENETETRAMINE:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): Exposure

time: 96 h

Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Water flea (Daphnia magna)): 31.1 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 20 mg/l

End point: Growth inhibition

Exposure time: 72 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Water flea (Daphnia magna)): 1.9 mg/l

Exposure time: 21 d

End point: Reproduction Test

PHENOL:

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): 7.5 - 14 mg/l

Exposure time: 96 h Test Type: static test

LC 50 (Fathead minnow (Pimephales promelas)): 67.5 mg/l

Exposure time: 96 h

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Test Type: flow-through test

LC 50 (Danio rerio (zebra fish)): 27.8 mg/l

Exposure time: 96 h Method: Static Remarks: Mortality

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Water flea (Ceriodaphnia dubia)): 3.1 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 61.1

mg/l

Exposure time: 96 h Test Type: static test

Toxicity to fish (Chronic

toxicity)

: NOEC (Fish): 0.077 mg/l Exposure time: 60 d

Test Type: semi-static test

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Water flea (Daphnia magna)): 0.16 mg/l

Exposure time: 16 d
Test Type: semi-static test

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

METHYLPENTAMETHYLENEDIAMINE:

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

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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

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 aquatic invertebrates

(Chronic toxicity)

: NOEC (Daphnia (water flea)): 100 mg/l

Exposure time: 21 d

GLYCIDYL (C12-C14 ALKYL) ETHER:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 5,000 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other : EL50 (Water flea (Daphnia magna)): 7.2 mg/l

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aquatic invertebrates Exposure time: 48 h

Test Type: static test Test substance: WAF

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : IC50 (Pseudokirchneriella subcapitata (microalgae)): 843 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

NOEC (Pseudokirchneriella subcapitata (microalgae)): 500

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

IMIDAZOLE:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 283.6 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 341.5 mg/l

Exposure time: 48 h Test Type: static test

Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae : EC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): 133 mg/l End point: Growth inhibition

Exposure time: 72 h Test Type: static test Method: DIN 38412

GLP: no

Persistence and degradability

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

removability

: Remarks: The product can be degraded by abiotic (e.g.

chemical or photolytic) processes.

TRIETHYLENETETRAMINE:

Biodegradability : Inoculum: activated sludge

Result: Not readily biodegradable.

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Biodegradation: 0 % Exposure time: 20 d

Method: OECD Test Guideline 301D Remarks: Not readily biodegradable.

PHENOL:

Biodegradability : Result: Readily biodegradable

Biodegradation: 62 % Exposure time: 100 h

Method: OECD Test Guideline 301C

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

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 4 % Exposure time: 28 d

Method: OECD Test Guideline 301D

METHYLPENTAMETHYLENEDIAMINE:

Biodegradability : Result: Readily biodegradable

Biodegradation: 100 % Exposure time: 28 d

Method: OECD Test Guideline 301D

GLP: yes

3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

Biodegradability : aerobic

Result: Not readily biodegradable.

Biodegradation: 37 % Exposure time: 28 d

GLP: yes

GLYCIDYL (C12-C14 ALKYL) ETHER:

Biodegradability : Result: Readily biodegradable

Biodegradation: 87 % Exposure time: 28 d

Method: OECD Test Guideline 301F

IMIDAZOLE:

Biodegradability : Inoculum: activated sludge

Result: Readily biodegradable

Exposure time: 18 d

Method: OECD Test Guideline 301A

GLP: yes

Bioaccumulative potential

TRIETHYLENETETRAMINE:

Bioaccumulation : Bioconcentration factor (BCF): < 100

Partition coefficient: n-

octanol/water

: log Pow: Calculated -2.4

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PHENOL:

Partition coefficient: n-

octanol/water

: log Pow: 1.46

METHYLPENTAMETHYLENEDIAMINE:

: log Pow: <= 1 (25 °C) Partition coefficient: n-

pH: 9 octanol/water GLP: yes

3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER:

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

octanol/water

IMIDAZOLE:

: log Pow: -0.02 (25 °C) Partition coefficient: n-

Method: OECD Test Guideline 107 octanol/water

Mobility in soil 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.

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

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0 102 1						
ID NU	IMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
U.S. D	OT - RO	AD				
UN	2735	Amines, liquid, corrosive, n.o.s.	8		III	LIMITED
		(TRIETHYLENETETRAMINE)				QUANTITY
J.S. DO	T - RAIL					
UN	2735	Amines, liquid, corrosive, n.o.s.	8		III	LIMITED
		(TRIETHYLENETETRAMINE)				QUANTITY
J.S. DO	T - INLAI	ND WATERWAYS				
UN	2735	Amines, liquid, corrosive, n.o.s.	8		Ш	LIMITED
		(TRIETHYLENETETRAMINE)				QUANTITY
		NADA - ROAD				
UN	2735	AMINES, LIQUID, CORROSIVE, N.O.S.	8		III	LIMITED
		(TRIETHYLENETETRAMINE)				QUANTITY
		(****=****=****************************				
		ANADA - RAIL	0			LIMITED
UN	2735	AMINES, LIQUID, CORROSIVE, N.O.S.	8		III	LIMITED QUANTITY
		(TRIETHYLENETETRAMINE)				Q0/111111
RANSI	PORT CA	NADA - INLAND WATERWAYS				
UN	2735	AMINES, LIQUID,	8		III	LIMITED
		CORROSIVE, N.O.S.				QUANTITY
		(TRIETHYLENETETRAMINE)				
		L MARITIME DANGEROUS GOO				
UN	2735	AMINES, LIQUID, CORROSIVE, N.O.S.	8		III	MARINE
		(TRIETHYLENETETRAMINE)				POLLUTANT:(EPOXY
		· · · · · · · · · · · · · · · · · · ·				RESIN)LIMITE
						D QUANTITY
NTERN	ATIONAL 2725	L AIR TRANSPORT ASSOCIATION	ON - CARGO		111	

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Amines, liquid, corrosive, n.o.s. (TRIETHYLENETETRAMINE)

2735

UN

III

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UN	2735	Amines, liquid, corrosive, n.o.s. (TRIETHYLENETETRAMINE)	8	III

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	2735	AMINAS LIQUIDAS,	8	III
		CORROSIVAS, N.E.P.		
		(TRIETHYLENETETRAMINE)		
		·		

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	yes

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

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
PHENOL	108-95-2	1000	18382.352941

SARA 311/312 Hazards : Acute Health Hazard

Chronic Health Hazard

SARA 313 Component(s)

108-95-2 108-95-2 5.44 %

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

CRISTOBALITE 14464-46-1

PART B

SARA 311/312 Hazards : Acute Health Hazard

Chronic Health Hazard

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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. CARBON BLACK 1333-86-4

CRISTOBALITE 14464-46-1

EPICHLOROHYDRIN 106-89-8

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

harm.

METHANOL 67-56-1

EPICHLOROHYDRIN 106-89-8

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 : Not 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 : 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), TSCA (USA)

Registration: Trade Secret

Rogion anomi Trado Coordi		
Chemical Name	Identification number	
POLYMER	254504001-6266	

SECTION 16. OTHER INFORMATION

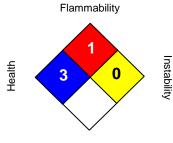
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PART A

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	SDS Number: 000000233547
Pliogrip™ DOOR SKIN 30/220 EPOXY ADHESIVE ™ Trademark, Ashland or its subsidiaries, registered in various countries 849244	Version: 1.1





Special hazard.

HMIS III:

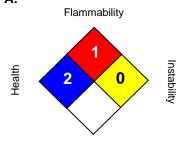
HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	0

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

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

PART B NFPA:



Special hazard.

HMIS III:

HEALTH	2*
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 referred to under sections 2 and 3. **PART A**

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H227	Combustible liquid.
H301	Toxic if swallowed.
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H351	Suspected of causing cancer if inhaled.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
PART B	

Sources of key data used to compile the Safety Data Sheet

Ashland internal data including own and sponsored test reports

Causes skin irritation.

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

Suspected of causing cancer if inhaled.

May cause an allergic skin reaction.

Causes serious eye damage.

Causes serious eye irritation.

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

H315

H317

H318

H319 H351

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

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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