

ARAFLOOR® PILGRIM 1 PART A

Version Revision Date: SDS Number: Date of last issue: 11/19/2015
1.1 02/25/2016 400001012822 Date of first issue: 11/19/2015

SECTION 1. IDENTIFICATION

Product name : ARAFLOOR® PILGRIM 1 PART A

Manufacturer or supplier's details

Company name of supplier

: Huntsman Advanced Materials Americas LLC

Address

P.O. Box 4980 The Woodlands.

TX 77387

United States of America

Telephone : Non-Emergency: (800) 257-5547

E-mail address of person responsible for the SDS

: MSDS@huntsman.com

Emergency telephone : Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Adhesives

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitization : Category 1

Acute aquatic toxicity : Category 2

Chronic aquatic toxicity : Category 2

GHS Label element

Hazard pictograms





Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.



ARAFLOOR® PILGRIM 1 PART A

Version Revision Date: SDS Number: Date of last issue: 11/19/2015
1.1 02/25/2016 400001012822 Date of first issue: 11/19/2015

P272 Contaminated work clothing must not be allowed out of

the workplace.

P273 Avoid release to the environment. P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Bisphenol A epoxy resin	25068-38-6	30 - 60
bisphenol F-epoxy resin	9003-36-5	13 - 30
1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane	17557-23-2	7 - 13
glycidylether of C12-C14 alcohols	68609-97-2	3 - 7
[[(2-ethylhexyl)oxy]methyl]oxirane	2461-15-6	3 - 7
Alcohols, C12-13, ethoxylated	66455-14-9	3 - 7
Alcohols, C10-16, ethoxylated, sulfates, sodium	68585-34-2	1 - 3
salts		

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this material safety data sheet to the doctor in

attendance.

Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.



ARAFLOOR® PILGRIM 1 PART A

Version 1.1 Revision Date: 02/25/2016

SDS Number: 400001012822

Date of last issue: 11/19/2015 Date of first issue: 11/19/2015

In case of eve contact

: Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed

Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear.

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

: None known.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

: No data is available on the product itself.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: No data is available on the product itself.

Specific extinguishing

methods

: No data is available on the product itself.

Further information

: Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment.

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.



ARAFLOOR® PILGRIM 1 PART A

Version Revision Date: SDS Number: Date of last issue: 11/19/2015
1.1 02/25/2016 400001012822 Date of first issue: 11/19/2015

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

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.

Electrical installations / working materials must comply with

the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles.

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.



ARAFLOOR® PILGRIM 1 PART A

Version Revision Date: SDS Number: Date of last issue: 11/19/2015
1.1 02/25/2016 400001012822 Date of first issue: 11/19/2015

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : light yellow

Odor : epoxy-like

Odor Threshold : No data is available on the product itself.

pH : No data is available on the product itself.

Boiling point : > 200 °C

Flash point : > 93.33 °C

Method: estimated, closed cup

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

Upper explosion limit : No data is available on the product itself.

Lower explosion limit : No data is available on the product itself.

Vapor pressure : No data is available on the product itself.

Relative vapor density : No data is available on the product itself.

Relative density : 1.13

Density : No data is available on the product itself.

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

Autoignition temperature : No data is available on the product itself.

Thermal decomposition : No data is available on the product itself.

Viscosity : No data is available on the product itself.

Self-Accelerating

decomposition temperature

(SADT)

: No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.



ARAFLOOR® PILGRIM 1 PART A

Version Revision Date: SDS Number: Date of last issue: 11/19/2015 400001012822 1.1 02/25/2016 Date of first issue: 11/19/2015

Possibility of hazardous

reactions

: No decomposition if stored and applied as directed.

Conditions to avoid : No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : No data is available on the product itself.

exposure

Acute toxicity

Acute oral toxicity - Product : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Ingredients:

glycidylether of C12-C14 alcohols:

Acute inhalation toxicity : LC0 (Rat): > 0.15 mg/l

Exposure time: 7 h Test atmosphere: vapor

[[(2-ethylhexyl)oxy]methyl]oxirane:

Acute inhalation toxicity : LC0 (Rat): > 0.15 mg/l

> Exposure time: 7 h Test atmosphere: vapor

Acute dermal toxicity -

: Acute toxicity estimate : > 5,000 mg/kg

Product

Method: Calculation method

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Product:

Remarks: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitization

Product:

Remarks: Causes sensitization.

No data available Assessment:



ARAFLOOR® PILGRIM 1 PART A

Version F 1.1 0

Revision Date: 02/25/2016

SDS Number: 400001012822

Date of last issue: 11/19/2015 Date of first issue: 11/19/2015

Germ cell mutagenicity

Ingredients:

Bisphenol A epoxy resin:

Genotoxicity in vitro

: Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive

Concentration: 0 - 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive

bisphenol F-epoxy resin:

Genotoxicity in vitro

: Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: positive

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive

1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane:

Genotoxicity in vitro : Metabolic activation: negative

Method: OECD Test Guideline 471

Result: positive

glycidylether of C12-C14 alcohols:

Genotoxicity in vitro

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

[[(2-ethylhexyl)oxy]methyl]oxirane:

Genotoxicity in vitro

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive

Ingredients:

Bisphenol A epoxy resin:

Genotoxicity in vivo

: Cell type: Germ

Application Route: Oral

Method: OECD Test Guideline 478

Result: negative

Cell type: Somatic Application Route: Oral Dose: 0 - 5000 mg/kg Method: OPPTS 870.5395



ARAFLOOR® PILGRIM 1 PART A

Version 1.1 Revision Date: 02/25/2016

SDS Number: 400001012822

Date of last issue: 11/19/2015 Date of first issue: 11/19/2015

Result: negative

bisphenol F-epoxy resin:

Genotoxicity in vivo

 Cell type: Somatic Application Route: Oral Exposure time: 48 h Dose: 2000 mg/kg

Method: OECD Test Guideline 474

Result: negative

Cell type: Somatic Application Route: Oral Dose: 2000 mg/kg

Method: OECD Test Guideline 486

Result: negative

1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane:

Genotoxicity in vivo : Method: OECD Test Guideline 474

Result: negative

glycidylether of C12-C14 alcohols:

Genotoxicity in vivo : Cell type: Somatic

Application Route: Intraperitoneal injection

Method: OECD Test Guideline 474

Result: negative

[[(2-ethylhexyl)oxy]methyl]oxirane:

Genotoxicity in vivo : Application Route: Intraperitoneal injection

Method: OECD Test Guideline 474

Result: negative

Ingredients:

Assessment

Bisphenol A epoxy resin:

Germ cell mutagenicity-

: Weight of evidence does not support classification as a germ

cell mutagen.

Germ cell mutagenicity-

Assessment

: No data available

Carcinogenicity

Ingredients:

Bisphenol A epoxy resin:

Species: Rat, (male and female)

Application Route: Oral Exposure time: 24 month(s)

Dose: 15 mg/kg

Frequency of Treatment: 7 days/week Method: OECD Test Guideline 453

Result: negative

Species: Mouse, (male) Application Route: Dermal Exposure time: 24 month(s)



ARAFLOOR® PILGRIM 1 PART A

Version Revision Date: SDS Number: Date of last issue: 11/19/2015 400001012822 1.1 02/25/2016 Date of first issue: 11/19/2015

Dose: 0.1 mg/kg

Frequency of Treatment: 3 days/week Method: OECD Test Guideline 453

Result: negative

Species: Rat, (female) Application Route: Dermal Exposure time: 24 month(s)

Dose: 1 mg/kg

Frequency of Treatment: 5 days/week Method: OECD Test Guideline 453

Result: negative

1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane:

Species: Mouse, (male and female)

Application Route: Dermal Exposure time: 24 month(s)

Dose: 30 mg/kg

Frequency of Treatment: 3 daily

Result: Not classified due to inconclusive data.

Target Organs: Skin

Carcinogenicity -Assessment

: No data available

IARC No ingredient 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 ingredient 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 ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Reproductive toxicity

Ingredients:

Bisphenol A epoxy resin:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

Dose: >750 milligram per kilogram

General Toxicity Parent: No-observed-effect level: 540 mg/kg

body weight

General Toxicity F1: No-observed-effect level: 540 mg/kg

body weight

Symptoms: No adverse effects. Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

bisphenol F-epoxy resin:

Species: Rat, male and female



ARAFLOOR® PILGRIM 1 PART A

Version Revision Date: SDS Number: Date of last issue: 11/19/2015
1.1 02/25/2016 400001012822 Date of first issue: 11/19/2015

Application Route: Oral

Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

[[(2-ethylhexyl)oxy]methyl]oxirane:

Species: Rat, female Application Route: Dermal

Result: No effects on fertility and early embryonic

development were detected.

Alcohols, C12-13, ethoxylated:

Species: Rat, male and female

Ingredients:

Bisphenol A epoxy resin:

Effects on fetal development

Species: Rabbit, female

Application Route: Dermal

General Toxicity Maternal: NOAEL (No observed adverse

effect level): 30 mg/kg body weight

Method: Other guidelines Result: No teratogenic effects.

Species: Rabbit, female Application Route: Oral

General Toxicity Maternal: NOAEL (No observed adverse

effect level): 60 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects.

Species: Rat, female Application Route: Oral

General Toxicity Maternal: NOAEL (No observed adverse

effect level): 180 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects.

bisphenol F-epoxy resin:

Species: Rabbit, female Application Route: Dermal

General Toxicity Maternal: NOAEL (No observed adverse

effect level): 30 mg/kg body weight Result: No teratogenic effects.

glycidylether of C12-C14 alcohols:

Species: Rat, female Application Route: Dermal

General Toxicity Maternal: No-observed-effect level: 200

mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects.

[[(2-ethylhexyl)oxy]methyl]oxirane:

Species: Rat

Application Route: Dermal

General Toxicity Maternal: NOAEL (No observed adverse



ARAFLOOR® PILGRIM 1 PART A

Version Revision Date: SDS Nur 1.1 02/25/2016 4000010

SDS Number: Date of last issue: 11/19/2015 400001012822 Date of first issue: 11/19/2015

effect level): > 200 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects.

Reproductive toxicity -

Assessment

: No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Repeated dose toxicity

Ingredients:

Bisphenol A epoxy resin: Species: Rat, male and female

NOAEL (No observed adverse effect level): 50 mg/kg

Application Route: Ingestion Exposure time: 14 Weeks Number of exposures: 7 d Method: Subchronic toxicity

Species: Rat, male and female No-observed-effect level: 10 mg/kg Application Route: Skin contact Exposure time: 13 Weeks Number of exposures: 5 d Method: Subchronic toxicity

Species: Mouse, male

NOAEL (No observed adverse effect level): 100 mg/kg

Application Route: Skin contact Exposure time: 13 Weeks Number of exposures: 3 d Method: Subchronic toxicity

bisphenol F-epoxy resin: Species: Rat, male and female

NOAEL (No observed adverse effect level): 250 mg/kg

Application Route: Ingestion Exposure time: 13 Weeks Number of exposures: 7 d Method: Subchronic toxicity

1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane:

Species: Mouse, male and female

Lowest observable effect level: 30 mg/kg

Application Route: Skin contact Exposure time: 17,280 h Number of exposures: 3 d



ARAFLOOR® PILGRIM 1 PART A

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 11/19/2015

 1.1
 02/25/2016
 400001012822
 Date of first issue: 11/19/2015

Method: Chronic toxicity

glycidylether of C12-C14 alcohols: Species: Rat, male and female No-observed-effect level: 1 mg/kg/d Application Route: Skin contact Exposure time: 13 Weeks Number of exposures: 5 d Method: Subchronic toxicity

[[(2-ethylhexyl)oxy]methyl]oxirane: Species: Rat, male and female

NOAEL (No observed adverse effect level): 100 mg/kg/d

Application Route: Skin contact Exposure time: 13 Weeks Number of exposures: 5 d Method: Subchronic toxicity

Repeated dose toxicity -

: No data available

Assessment

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Product:

Remarks: No data available



ARAFLOOR® PILGRIM 1 PART A

Version SDS Number: Date of last issue: 11/19/2015 Revision Date: 1.1 02/25/2016 400001012822 Date of first issue: 11/19/2015

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

Bisphenol A epoxy resin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.5 mg/l

> Exposure time: 96 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 203

bisphenol F-epoxy resin:

: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.55 mg/l Toxicity to fish

> Exposure time: 96 h Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 203

glycidylether of C12-C14 alcohols:

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

> Exposure time: 96 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 203

[[(2-ethylhexyl)oxy]methyl]oxirane:

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

> Exposure time: 96 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 203

Ingredients:

Bisphenol A epoxy resin:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 2.7 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water

bisphenol F-epoxy resin:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 1.6 mg/l

Exposure time: 48 h Test Type: static test Test substance: Fresh water

Method: OECD Test Guideline 202

glycidylether of C12-C14 alcohols:

aquatic invertebrates

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

Exposure time: 48 h Test Type: static test Test substance: Fresh water

Method: OECD Test Guideline 202

[[(2-ethylhexyl)oxy]methyl]oxirane:



ARAFLOOR® PILGRIM 1 PART A

Version SDS Number: Date of last issue: 11/19/2015 Revision Date: 400001012822 1.1 02/25/2016 Date of first issue: 11/19/2015

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): 7.2 mg/l

Exposure time: 48 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 202

Ingredients:

Bisphenol A epoxy resin:

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 9.4 mg/l

> Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: EPA-660/3-75-009

bisphenol F-epoxy resin:

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 1.8 mg/l

> Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 201

glycidylether of C12-C14 alcohols:

Toxicity to algae : IC50 (Selenastrum capricornutum (green algae)): 843.75 mg/l

> Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 201

[[(2-ethylhexyl)oxy]methyl]oxirane:

Toxicity to algae : IC50 (Selenastrum capricornutum (green algae)): 843.75 mg/l

> Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 201

M-Factor (Acute aquatic

toxicity)

No data available

Toxicity to fish (Chronic

toxicity)

: No data available

Ingredients:

Bisphenol A epoxy resin:

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 0.3 mg/l

Exposure time: 21 d Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 211

bisphenol F-epoxy resin:

Toxicity to daphnia and other

: NOEC (Daphnia magna (Water flea)): 0.3 mg/l

aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d Test Type: semi-static test Test substance: Fresh water

Method: OECD Test Guideline 211



ARAFLOOR® PILGRIM 1 PART A

Version 1.1 Revision Date: 02/25/2016

SDS Number: 400001012822

Date of last issue: 11/19/2015 Date of first issue: 11/19/2015

M-Factor (Chronic aquatic

toxicity)

: No data available

Ingredients:

Bisphenol A epoxy resin:

Toxicity to bacteria : IC50 (activated sludge): > 100 mg/l

Exposure time: 3 h
Test Type: static test
Test substance: Fresh water

bisphenol F-epoxy resin:

Toxicity to bacteria : IC50 (activated sludge): > 100 mg/l

Exposure time: 3 h
Test Type: static test
Test substance: Fresh water

glycidylether of C12-C14 alcohols:

Toxicity to bacteria : IC50: > 100 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Toxicity to soil dwelling

organisms

: No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial

organisms

: No data available

Ecotoxicology Assessment

Ingredients:

bisphenol F-epoxy resin:

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Ingredients:

bisphenol F-epoxy resin:

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

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

Further information: No data available

Persistence and degradability

Ingredients:

Bisphenol A epoxy resin:

Biodegradability : Inoculum: Sewage (STP effluent)



ARAFLOOR® PILGRIM 1 PART A

Version 1.1 Revision Date: 02/25/2016

SDS Number: 400001012822

Date of last issue: 11/19/2015 Date of first issue: 11/19/2015

Concentration: 20 mg/l

Result: Not readily biodegradable.

Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301F

bisphenol F-epoxy resin:

Biodegradability : Inoculum: activated sludge

Concentration: 3 mg/l

Result: Not readily biodegradable.

Biodegradation: ca. 0 % Exposure time: 28 d

Method: Directive 67/548/EEC Annex V, C.4.E.

glycidylether of C12-C14 alcohols:

Biodegradability : Inoculum: Domestic sewage

Concentration: 100 mg/l Result: Readily biodegradable.

Biodegradation: 87 % Exposure time: 28 d

Method: OECD Test Guideline 301F

[[(2-ethylhexyl)oxy]methyl]oxirane:

Biodegradability : Inoculum: activated sludge

Concentration: 100 mg/l

Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Biochemical Oxygen

Demand (BOD)

: No data available

Chemical Oxygen Demand

(COD)

: No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon

(DOC)

: No data available

Physico-chemical

removability

: No data available

Stability in water : No data available

Photodegradation : No data available

Impact on Sewage

Treatment

: No data available



ARAFLOOR® PILGRIM 1 PART A

Version Revision Date: SDS Number: Date of last issue: 11/19/2015 1.1 02/25/2016 400001012822 Date of first issue: 11/19/2015

Bioaccumulative potential

Ingredients:

Bisphenol A epoxy resin:

Bioaccumulation : Bioconcentration factor (BCF): 31

Remarks: Does not bioaccumulate.

bisphenol F-epoxy resin:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 150 Remarks: Does not bioaccumulate.

Ingredients:

Bisphenol A epoxy resin:

Partition coefficient: n- : log Pow: 3.242 (25 °C)

octanol/water pH: 7.1

Method: OECD Test Guideline 117

bisphenol F-epoxy resin:

Partition coefficient: n- : log Pow: 2.7 - 3.6

octanol/water Method: OECD Test Guideline 117

glycidylether of C12-C14 alcohols:

Partition coefficient: n- : log Pow: 3.77 (20 °C)

octanol/water Method: OECD Test Guideline 107

[[(2-ethylhexyl)oxy]methyl]oxirane:

Partition coefficient: n- : log Pow: 3.83 octanol/water pH: 6.34

Method: OECD Test Guideline 117

Mobility in soil

Mobility : No data available

Ingredients:

Bisphenol A epoxy resin:

Distribution among : Koc: 445.

environmental compartments bisphenol F-epoxy resin:

Distribution among : Koc: 4460. Method: OECD Test Guideline 121

environmental compartments [[(2-ethylhexyl)oxy]methyl]oxirane:

Distribution among : Koc: > 426580. Method: OECD Test Guideline 121

environmental compartments

Stability in soil : No data available

Other adverse effects

Environmental fate and : No data available

pathways

Results of PBT and vPvB : No data available

assessment



ARAFLOOR® PILGRIM 1 PART A

Version Re

Revision Date: 02/25/2016

SDS Number: 400001012822

Date of last issue: 11/19/2015 Date of first issue: 11/19/2015

Endocrine disrupting

potential

: No data available

Adsorbed organic bound

halogens (AOX)

: No data available

Hazardous to the ozone layer

Ozone-Depletion Potential

Not applicable

Additional ecological

information - Product

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

Global warming potential

(GWP)

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : 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.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(BISPHENOL A EPOXY RESIN, BISPHENOL F EPOXY

RESIN)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

: 964

Packing instruction (passenger aircraft) : 964

IMDG

UN number : UN 3082



ARAFLOOR® PILGRIM 1 PART A

SDS Number: Version Revision Date: Date of last issue: 11/19/2015 400001012822 1.1 02/25/2016 Date of first issue: 11/19/2015

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN, BISPHENOL F EPOXY

RESIN)

Class : 9 Packing group Ш Labels 9

F-A, S-F EmS Code Marine pollutant yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

DOT Classification

UN/ID/NA number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN, 2-ETHYLHEXYL-

GLYCIDYLETHER)

: 9 Class Packing group : 111

Labels : CLASS 9 ERG Code : 171

Marine pollutant yes(BISPHENOL A EPOXY RESIN, BISPHENOL F EPOXY

RESIN)

Remarks Above applies only to containers over 119 gallons or 450

liters. Not regulated if shipped in packages less than or equal

to 119 gallons (450 liters).

SECTION 15. REGULATORY INFORMATION

TSCA - 5(a) Significant New : Not relevant

Use Rule List of Chemicals

EPCRA - Emergency Planning and Community Right-to-Know

SARA 311/312 Hazards : Acute Health Hazard

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 the

State of California to cause cancer, birth, or any other

reproductive defects.

The ingredients of this product are reported in the following inventories:

CH INV : The mixture contains substances listed on the Swiss Inventory



Enriching lives through innovation

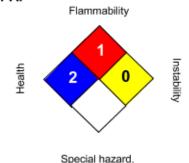
ADAEI	∩∩P ®	DII	CDIM	1	PART A	
AKALL	_UUR®	PIL	GRIIVI		PARIA	

Version 1.1	Revision Date: 02/25/2016	SDS Number: 400001012822	Date of last issue: 11/19/2015 Date of first issue: 11/19/2015
TSCA DSL AICS NZIOC ENCS ISHL KECI PICCS		: On the invento : Not in complia : Not in complia : Not in complia : On the invento	ntory s of this product are on the Canadian DSL. ry, or in compliance with the inventory nce with the inventory nce with the inventory nce with the inventory ry, or in compliance with the inventory ry, or in compliance with the inventory
IECSC	;	: On the invento	ry, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

Revision Date : 02/25/2016

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE. THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

The trademarks above are the property of Huntsman Corporation or an affiliate thereof.



ARAFLOOR® PILGRIM 1 PART A

Version 1.1 Revision Date: 02/25/2016

SDS Number: 400001012822

Date of last issue: 11/19/2015 Date of first issue: 11/19/2015

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM HUNTSMAN. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET SHOULD BE DIRECTED TO HUNTSMAN, MANAGER, PRODUCT SAFETY AT THE ABOVE ADDRESS.