





HUNTSMAN

Enriching lives through innovation

# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

1.0 03/04/2016 400001010434 Date of first issue: 03/04/2016

#### **SECTION 1. IDENTIFICATION**

Product name : ARALDITE® 2028 B US

### 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 : Component of a Polyurethane System.

## **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitization : Category 1

Reproductive 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.

H361 Suspected of damaging fertility or the unb

Precautionary Statements : Prevention:

P201 Obtain special instructions before use. P202 Do not handle until all safety precautions I

and understood

and understood.

P261 Avoid breathing dust/ fume/ gas/ mist/ vap







Enriching lives through innovation

# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

1.0 03/04/2016 400001010434 Date of first issue: 03/04/2016

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

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.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

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.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 84.86 %

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

Substance / Mixture : Mixture

### **Hazardous ingredients**

Chemical Name	CAS-No.	Concentration (%)
Alkoxylated amine	102-60-3	7 - 13
propylene carbonate	108-32-7	3 - 7
3-aminopropyltriethoxysilane	919-30-2	1 - 3
dimethylbis[(1-oxoneodecyl)oxy]stannane	68928-76-7	0.1 - 1

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

If inhaled : Move to fresh air in case of accidental inhalation of dust or

fumes from overheating or combustion. If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.



Enriching lives through innovation

# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

1.0 03/04/2016 400001010434 Date of first issue: 03/04/2016

In case of eye 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.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

: None known.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

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

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: No data is available on the product itself.

Specific extinguishing

methods

: No data is available on the product itself.

Further information : Standard procedure for chemical fires.

for fire-fighters

Special protective equipment : 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.

**Environmental precautions** : Try to prevent the material from entering drains or water

courses.

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.

## **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Advice on safe handling : Avoid contact with skin and eyes.

For personal protection see section 8.

Persons with a history of skin sensitization problems or



# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

1.0 03/04/2016 400001010434 Date of first issue: 03/04/2016

asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is

being used.

Smoking, eating and drinking should be prohibited in the

application area.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Materials to avoid : Strong acids

Strong bases

Strong oxidizing agents

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : In the case of vapor formation use a respirator with an

approved filter.

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Material : butyl-rubber

Break through time : > 8 h

Solvent-resistant gloves (butyl-rubber)

Nitrile rubber 10 - 480 min

Remarks : Polyvinyl alcohol or nitrile- butyl-rubber gloves

The selected protective gloves have to satisfy the

specifications of EU Directive 89/689/EEC and the standard

EN 374 derived from it.

Before removing gloves clean them with soap and water.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles.

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 : Handle in accordance with good industrial hygiene and safety

practice.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.



# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

1.0 03/04/2016 400001010434 Date of first issue: 03/04/2016

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : translucent

Odor : slight

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

pH : No data is available on the product itself.

Flash point : > 100 °C

Method: Pensky-Martens closed cup, 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 : No data is available on the product itself.

Density : 1.12 g/cm3 (25 °C)

Solubility(ies)

Water solubility : insoluble (20 °C)

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.

Decomposition temperature : > 200 °C

Viscosity

Viscosity, dynamic : 1,000 - 1,500 mPa.s (25 °C)

Method: ISO 2555

Self-Accelerating

decomposition temperature

(SADT)

: No data is available on the product itself.

#### **SECTION 10. STABILITY AND REACTIVITY**



# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

400001010434 03/04/2016 1.0 Date of first issue: 03/04/2016

Reactivity Stable under recommended storage conditions. Chemical stability No decomposition if stored and applied as directed. Possibility of hazardous Stable under recommended storage conditions.

reactions No decomposition if used as directed.

Conditions to avoid : No data available

Hazardous decomposition

products

: Burning produces obnoxious and toxic fumes.

Carbon oxides

#### **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 : 2,236 mg/kg

Method: Calculation method

**Ingredients:** 

3-aminopropyltriethoxysilane:

Acute inhalation toxicity : LC50 (Rat, male): > 5 ppm

> Exposure time: 6 h Test atmosphere: vapor

Method: OECD Test Guideline 403

dimethylbis[(1-oxoneodecyl)oxy]stannane: Acute inhalation toxicity : LC50 (Rat):

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

#### Ingredients:

propylene carbonate: Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404

Result: No skin irritation

3-aminopropyltriethoxysilane:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Causes burns.

dimethylbis[(1-oxoneodecyl)oxy]stannane:

Species: Rabbit



# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

1.0 03/04/2016 400001010434 Date of first issue: 03/04/2016

Assessment: Mild skin irritant Method: OECD Test Guideline 404

Result: No skin irritation

## Serious eye damage/eye irritation

#### Ingredients:

Alkoxylated amine: Species: Rabbit Result: Irritating to eyes.

Assessment: Irritant

propylene carbonate: Species: Rabbit Result: Eye irritation Method: OPPTS 870.2400

3-aminopropyltriethoxysilane:

Species: Rabbit

Result: Risk of serious damage to eyes. Method: OECD Test Guideline 405

dimethylbis[(1-oxoneodecyl)oxy]stannane:

Species: Rabbit

Result: No eye irritation Assessment: Mild eye irritant Method: OECD Test Guideline 405

#### Respiratory or skin sensitization

### **Ingredients:**

propylene carbonate: Routes of exposure: Skin

Species: Humans

Result: Does not cause skin sensitization.

3-aminopropyltriethoxysilane: Routes of exposure: Skin

Species: Guinea pig

Method: OECD Test Guideline 406

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

Assessment: No data available

#### Germ cell mutagenicity

#### **Ingredients:**

propylene carbonate:

Genotoxicity in vitro : Concentration: 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Metabolic activation: negative Method: OECD Test Guideline 482



# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

1.0 03/04/2016 400001010434 Date of first issue: 03/04/2016

Result: negative

dimethylbis[(1-oxoneodecyl)oxy]stannane:

Genotoxicity in vitro : Method: OECD Test Guideline 471

Result: negative

Ingredients:

propylene carbonate:

Genotoxicity in vivo : Application Route: Intraperitoneal injection

Dose: 1666 mg/kg

Method: OECD Test Guideline 474

Result: negative

3-aminopropyltriethoxysilane:

Genotoxicity in vivo : Application Route: Intraperitoneal injection

Method: OECD Test Guideline 474

Result: negative

#### Carcinogenicity

### Ingredients:

propylene carbonate:
Species: Mouse, (male)
Application Route: Dermal
Exposure time: 104 weeks
Dose: 1500 - 2000 mg/kg
Frequency of Treatment: 2 daily
Method: OECD Test Guideline 451

Result: negative

Carcinogenicity - : No data available

Assessment

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:** 

Alkoxylated amine:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 422

propylene carbonate:

Species: Rat



# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

1.0 03/04/2016 400001010434 Date of first issue: 03/04/2016

Application Route: Oral

Method: OECD Test Guideline 414

**Ingredients:** 

Alkoxylated amine:

Effects on fetal development : Species: Rat, female

Application Route: Oral

General Toxicity Maternal: NOAEL (No observed adverse

effect level): 400 mg/kg body weight Result: No teratogenic effects.

propylene carbonate:

Species: Rat, male and female

Application Route: Oral

General Toxicity Maternal: NOAEL (No observed adverse

effect level): 1,000 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects.

dimethylbis[(1-oxoneodecyl)oxy]stannane:

Species: Rat, female Application Route: Oral

General Toxicity Maternal: NOAEL (No observed adverse

effect level): 10 mg/kg body weight Method: OECD Test Guideline 414

Result: Teratogenic effects.

Reproductive toxicity -

Assessment

: No data available

## STOT-single exposure

No data available

# STOT-repeated exposure

No data available

#### Repeated dose toxicity

### Ingredients:

Alkoxylated amine:

Species: Rat, male and female

NOAEL (No observed adverse effect level): 1000 mg/kg/d

Application Route: Ingestion Exposure time: 1,176 h Number of exposures: 7 d Method: Subacute toxicity

Species: Rat, male and female

NOAEL (No observed adverse effect level): 300 mg/kg/d

Application Route: Ingestion Exposure time: 1,176 h Number of exposures: 7 d Method: Subacute toxicity



# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

1.0 03/04/2016 400001010434 Date of first issue: 03/04/2016

propylene carbonate:

Species: Rat, male and female NOEC: > 5000 mg/kg, 100 mg/m3 Application Route: Ingestion Test atmosphere: dust/mist Exposure time: 2,232 h Number of exposures: 6 h

Method: OECD Test Guideline 413

3-aminopropyltriethoxysilane: Species: Rat, male and female

NOAEL (No observed adverse effect level): 200 mg/kg

Application Route: Ingestion Exposure time: 2,160 h Method: Subchronic toxicity

Repeated dose toxicity -

Assessment

: No data available

### **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



# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

1.0 03/04/2016 400001010434 Date of first issue: 03/04/2016

#### **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

### **Ingredients:**

Alkoxylated amine:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 4,600 mg/l

Exposure time: 96 h

Test Type: flow-through test Test substance: Fresh water

Method: DIN 38412

LC50 (Leuciscus idus (Golden orfe)): 2,700 mg/l

Exposure time: 48 h Test Type: static test Method: DIN 38412

propylene carbonate:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 1,000 mg/l

Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.1.

Remarks: No-observed-effect level

3-aminopropyltriethoxysilane:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 934 mg/l

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

### Ingredients:

Alkoxylated amine:

Toxicity to daphnia and other

aquatic invertebrates

: IC0 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: static test

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

propylene carbonate:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202
Remarks: No-observed-effect level

3-aminopropyltriethoxysilane:

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 331 mg/l

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



# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

1.0 03/04/2016 400001010434 Date of first issue: 03/04/2016

**Ingredients:** 

Alkoxylated amine:

Toxicity to algae : EC50 (Other): 150.67 mg/l

Exposure time: 72 h

Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.3.

propylene carbonate:

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): > 929 mg/l

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

ErC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): > 900 mg/l Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 201

3-aminopropyltriethoxysilane:

Toxicity to algae : EC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): > 1,000 mg/l Exposure time: 72 h Test Type: static test Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.3.

M-Factor (Acute aquatic

toxicity)

: No data available

Ingredients:

Alkoxylated amine:

Toxicity to fish (Chronic

toxicity)

: GLP: yes

**Ingredients:** 

Alkoxylated amine:

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 10 mg/l

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

M-Factor (Chronic aquatic

toxicity)

: No data available

**Ingredients:** 

propylene carbonate:

Toxicity to bacteria : EC50 (Pseudomonas putida): 25,619 mg/l

Exposure time: 16 h Test Type: static test Test substance: Fresh water Method: DIN 38 412 Part 8



# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

1.0 03/04/2016 400001010434 Date of first issue: 03/04/2016

3-aminopropyltriethoxysilane:

Toxicity to bacteria : EC50 (Pseudomonas putida): 43 mg/l

Exposure time: 5.75 h Test Type: static test

Test substance: Fresh water

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

Acute aquatic toxicity : No data available

### **Ingredients:**

dimethylbis[(1-oxoneodecyl)oxy]stannane:

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

#### Further information

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 84.86 %

# Persistence and degradability

#### Ingredients:

Alkoxylated amine:

Biodegradability : Inoculum: activated sludge

Concentration: 107 mg/l

Result: Inherently biodegradable.

Biodegradation: 36 % Exposure time: 28 d

Method: OECD Test Guideline 302B

Inoculum: Domestic sewage Concentration: 30 mg/l

Result: Not readily biodegradable.

Biodegradation: 9 % Exposure time: 28 d

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

propylene carbonate:

Biodegradability : Concentration: 20 mg/l

Result: Readily biodegradable. Biodegradation: 83.5 %

Exposure time: 29 d



Enriching lives through innovation

# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

1.0 03/04/2016 400001010434 Date of first issue: 03/04/2016

Method: OECD Test Guideline 301B

3-aminopropyltriethoxysilane:

Biodegradability : Inoculum: activated sludge

Concentration: 8.95 mg/l

Result: Not readily biodegradable.

Biodegradation: 67 % Exposure time: 28 d

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

dimethylbis[(1-oxoneodecyl)oxy]stannane:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: < 60 % Exposure time: 28 d

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

### **Bioaccumulative potential**

### **Ingredients:**

3-aminopropyltriethoxysilane:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 3.4 Remarks: Does not bioaccumulate.

Ingredients:

Alkoxylated amine:

Partition coefficient: n- : log Pow: -2.08 (25 °C)

octanol/water



Enriching lives through innovation

# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

1.0 03/04/2016 400001010434 Date of first issue: 03/04/2016

propylene carbonate:

Partition coefficient: n-

octanol/water

: log Pow: -0.5 (20 °C)

3-aminopropyltriethoxysilane:

Partition coefficient: n-

octanol/water

: log Pow: 1.7 (20 °C)

pH: 7

Mobility in soil

Mobility : No data available

Distribution among

environmental compartments

: No data available

Stability in soil : No data available

Other adverse effects

Environmental fate and

pathways

: No data available

Results of PBT and vPvB

assessment

: No data available

Endocrine disrupting

potential

: No data available

Adsorbed organic bound

halogens (AOX)

: No data available

## Hazardous to the ozone layer

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).

Additional ecological information - Product

Global warming potential

(GWP)

: There is no data available for this product.

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal methods**

Waste from residues : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Offer surplus and non-recyclable solutions to a licensed

disposal company.



# **ARALDITE® 2028 B US**

Version **Revision Date:** SDS Number: Date of last issue: -

03/04/2016 1.0 400001010434 Date of first issue: 03/04/2016

Contaminated packaging : Empty remaining contents.

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

#### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulation**

#### IATA

Not regulated as a dangerous good

#### **IMDG**

Not regulated as a dangerous good

### 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**

Not regulated as a dangerous good

### **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.

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

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:



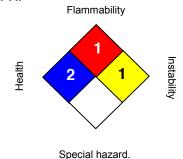
ARALDITE® 2028 B US					
Version 1.0	Revision Date: 03/04/2016	SDS Number: 400001010434	Date of last issue: - Date of first issue: 03/04/2016		
CH IN TSCA DSL AICS NZIOC ENCS ISHL		<ul><li>: On TSCA Inve</li><li>: All component</li><li>: Not in complia</li><li>: Not in complia</li><li>: Not in complia</li></ul>	ontains substances listed on the Swiss Inventory ntory s of this product are on the Canadian DSL. nce with the inventory		
KECI PICCS	S		ry, or in compliance with the inventory nce with the inventory		

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**



**IECSC** 



#### HMIS III:

On the inventory, or in compliance with the inventory

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	1

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

Revision Date : 03/04/2016

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.



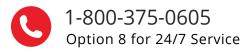
# **ARALDITE® 2028 B US**

Version Revision Date: SDS Number: Date of last issue: -

1.0 03/04/2016 400001010434 Date of first issue: 03/04/2016

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.







6550 Oley Speaks Way Canal Winchester, OH 43110



www.RudolphBros.Com RBCsupport@RudBro.Com