

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 420 B

Version	Revision Date:	SDS Number:	Date of last issue: 20.05.2015
1.1	29.11.2018	400001007700	Date of first issue: 20.05.2015

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : ARALDITE® 420 B

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Hardener

#### 1.3 Details of the supplier of the safety data sheet

Company : Huntsman Advanced Materials (Europe)BVBA  
Address : Everslaan 45  
3078 Everberg  
Belgium  
Telephone : +41 61 299 20 41  
Telefax : +41 61 299 20 40  
E-mail address of person responsible for the SDS : Global\_Product\_EHS\_AdMat@huntsman.com

#### 1.4 Emergency telephone number

Emergency telephone number : Centres Antipoison et de Toxicovigilance:  
ANGERS: 02 41 48 21 21  
BORDEAUX: 05 56 96 40 80  
LILLE: 0 825 812 822  
LYON: 04 72 11 69 11  
MARSEILLE 04 91 75 25 25  
NANCY: 03 83 32 36 36  
PARIS: 01 40 05 48 48  
RENNES: 02 99 59 22 22  
STRASBOURG: 03 88 37 37 37  
TOULOUSE: 05 61 77 74 47  
EUROPE: +32 35 75 1234  
France ORFILA: +33(0)145425959  
ASIA: +65 6336-6011  
China: +86 20 39377888  
+86 532 83889090  
India: + 91 22 42 87 5333  
Australia: 1800 786 152  
New Zealand: 0800 767 437  
USA: +1/800/424.9300

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Skin corrosion, Sub-category 1B H314: Causes severe skin burns and eye damage.

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Serious eye damage, Category 1      H318: Causes serious eye damage.  
Skin sensitisation, Category 1      H317: May cause an allergic skin reaction.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**  
P261 Avoid breathing mist or vapours.  
P280 Wear protective gloves/ protective clothing/  
eye protection/ face protection.

**Response:**  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
P305 + P351 + P338 + P310 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/doctor.

Hazardous components which must be listed on the label:  
3,3'-oxybis(ethyleneoxy)bis(propylamine)

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Hazardous components**

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration

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	Registration number		(% w/w)
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	4246-51-9 224-207-2 01-2119963377-26	Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 60 - < 100

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Treat symptomatically.  
Get medical attention if symptoms occur.
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
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.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

**4.2 Most important symptoms and effects, both acute and delayed**

None known.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment : Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Refer to protective measures listed in sections 7 and 8.

#### 6.2 Environmental precautions

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.

#### 6.3 Methods and material for containment and cleaning up

Methods for 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.

#### 6.4 Reference to other sections

See Section 1 for emergency contact information.

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For personal protection see section 8.  
For disposal considerations see section 13.  
For disposal considerations see section 13., See Section 1 for emergency contact information.,  
For personal protection see section 8.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/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.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.  
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.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Keep in properly labelled containers.

Advice on common storage : For incompatible materials please refer to Section 10 of this SDS.

Recommended storage temperature : 2 - 40 °C

Further information on storage stability : Stable under normal conditions.

#### 7.3 Specific end use(s)

Specific use(s) : No data available

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
3,3'-oxybis(ethyleneoxy)bis(propylamine)	Workers	Inhalation	Long-term systemic effects	59 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	176 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	1 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	8,3 mg/kg
	Consumers	Inhalation	Long-term systemic effects	17 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	52 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	0,5 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	6,5 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	5 mg/kg
	Consumers	Oral	Long-term systemic effects	5 mg/kg

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
3,3'-oxybis(ethyleneoxy)bis(propylamine)	Fresh water	0,22 mg/l
	Marine water	0,022 mg/l
	Intermittent use/release	2,2 mg/l
	Sewage treatment plant	125 mg/l
	Fresh water sediment	1,1 mg/kg
	Marine sediment	0,11 mg/kg
	Soil	0,091 mg/kg

#### 8.2 Exposure controls

##### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

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Hand protection  
Material : butyl-rubber  
Break through time : > 8 h

Material : Nitrile rubber  
Break through time : 10 - 480 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines  
Recommended Filter type:  
Combined particulates and organic vapour type

Filter type : Filter type A-P

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : blue

Odour : amine-like

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

pH : No data is available on the product itself.

Freezing point : No data is available on the product itself.

Melting point : No data is available on the product itself.

Boiling point : No data is available on the product itself.

Flash point : > 100 °C  
Method: Pensky-Martens closed cup

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

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

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

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

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

Vapour pressure : < 0,01 hPa (20 °C)

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

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

Density : 1 g/cm<sup>3</sup> (25 °C)

Solubility(ies)  
Water solubility : practically 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.

Auto-ignition temperature : No data is available on the product itself.

Decomposition temperature : > 200 °C

Viscosity  
Viscosity, dynamic : 600 - 1 400 mPa.s (25 °C)

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases  
Strong oxidizing agents

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### 10.6 Hazardous decomposition products

Carbon oxides  
Nitrogen oxides (NOx)  
Burning produces noxious and toxic fumes.  
No hazardous decomposition products are known.  
Hazardous decomposition products : carbon dioxide  
carbon monoxide  
Nitrogen oxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Acute oral toxicity : LD50 (Rat, male and female): 2 850 - 3 160 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The component/mixture is low toxic after single ingestion.

Acute inhalation toxicity : No data available

##### Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Acute dermal toxicity : LD50 (Rat, male and female): > 2 150 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The component/mixture is low toxic after single contact with skin.

Acute toxicity (other routes of administration) : No data available

#### Skin corrosion/irritation

##### Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Species: Rabbit  
Method: Other guidelines  
Result: Corrosive after 3 minutes to 1 hour of exposure

#### Serious eye damage/eye irritation

##### Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Species: Rabbit  
Assessment: Risk of serious damage to eyes.

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Result: Risk of serious damage to eyes.

### Respiratory or skin sensitisation

#### Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Exposure routes: Skin

Species: Other

Result: May cause sensitisation by skin contact.

#### Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Assessment: May be harmful if swallowed or in contact with skin., Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.

### Germ cell mutagenicity

#### Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 5000 ug/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

: Test Type: Micronucleus test  
Test system: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 487  
Result: negative

: Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : No data available

#### Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Germ cell mutagenicity- : In vitro tests did not show mutagenic effects  
Assessment

Germ cell mutagenicity- : No data available  
Assessment

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### Carcinogenicity

No data available

Carcinogenicity - Assessment : No data available

### Reproductive toxicity

#### Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: 100,300,1000 (600 day7) mg/kg  
Frequency of Treatment: 7 days/week  
General Toxicity - Parent: No observed adverse effect level:  
600 mg/kg body weight  
Fertility: No observed adverse effect level: 600 mg/kg body weight  
Early Embryonic Development: No observed adverse effect level:  
600 mg/kg body weight  
Method: OECD Test Guideline 422

Effects on foetal development : No data available

#### Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

### Repeated dose toxicity

#### Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Species: Rat, male and female  
NOAEL: < 100 mg/kg  
Application Route: oral (gavage)  
Number of exposures: daily  
Dose: 100, 300, 1000(600,day7)mg/kg  
Group: yes  
Method: OECD Test Guideline 422

#### Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

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Repeated dose toxicity - Assessment : May be harmful if swallowed or in contact with skin., Causes severe skin burns and eye damage.  
No adverse effect has been observed in chronic toxicity tests.

### 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

Ingestion: No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 1 000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 218,16 mg/l  
Exposure time: 48 h

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Test Type: static test  
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: DIN 38412

Toxicity to microorganisms : (Pseudomonas putida): 221,9 mg/l  
End point: Growth rate  
Exposure time: 17 h  
Test Type: static test  
Method: DIN 38412

### 12.2 Persistence and degradability

#### Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Biodegradability : Inoculum: activated sludge  
Concentration: 30 mg/l  
Result: Not readily biodegradable.  
Biodegradation: < 10 %  
Exposure time: 60 d  
Method: OECD Test Guideline 301B

### 12.3 Bioaccumulative potential

#### Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Partition coefficient: n-octanol/water : log Pow: -1,25 (25 °C)  
pH: 11,1  
Method: OECD Test Guideline 107

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
Dispose of as hazardous waste in compliance with local and national regulations.  
Dispose of contents/ container to an approved waste disposal plant.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

### SECTION 14: Transport information

#### IATA

- 14.1 UN number : UN 2735
- 14.2 UN proper shipping name : Amines, liquid, corrosive, n.o.s.  
(TRIOXATRIDEKANEDIAMINE)
- 14.3 Transport hazard class(es) : 8
- 14.4 Packing group : II
- Labels : Corrosive
- Packing instruction (cargo aircraft) : 855
- Packing instruction (passenger aircraft) : 851

#### IMDG

- 14.1 UN number : UN 2735
- 14.2 UN proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.  
(TRIOXATRIDEKANEDIAMINE)
- 14.3 Transport hazard class(es) : 8
- 14.4 Packing group : II
- Labels : 8
- EmS Code : F-A, S-B
- 14.5 Environmental hazards
- Marine pollutant : no

#### ADR

- 14.1 UN number : UN 2735
- 14.2 UN proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.  
(TRIOXATRIDEKANEDIAMINE)

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**14.3 Transport hazard class(es)** : 8

**14.4 Packing group** : II

Labels : 8

**14.5 Environmental hazards**

Environmentally hazardous : no

### RID

**14.1 UN number** : UN 2735

**14.2 UN proper shipping name** : AMINES, LIQUID, CORROSIVE, N.O.S.

(TRIOXATRIDEKANEDIAMINE)

**14.3 Transport hazard class(es)** : 8

**14.4 Packing group** : II

Labels : 8

**14.5 Environmental hazards**

Environmentally hazardous : no

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - List of substances subject to authorisation - Future sunset date : Not applicable

Occupational Illnesses (R-461-3, France) : Not applicable

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

DSL : This product contains one or several components listed in the Canadian NDSL.

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

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ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Low volume exemption

TCSI : On the inventory, or in compliance with the inventory

TSCA : On the inventory, or in compliance with the inventory

### Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

### 15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

## SECTION 16: Other information

### Full text of H-Statements

H314 : Causes severe skin burns and eye damage.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.

### Full text of other abbreviations

Eye Dam. : Serious eye damage  
Skin Corr. : Skin corrosion  
Skin Sens. : Skin sensitisation

### Further information

#### Classification of the mixture:

Skin Corr. 1B H314  
Eye Dam. 1 H318  
Skin Sens. 1 H317

#### Classification procedure:

Calculation method  
Calculation method  
Calculation method

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.

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## ARALDITE® 420 B

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