

# ACE UV SHIELD B

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### 1.1 Product identifier.

Trade name : ACE UV SHIELD B

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

Use of the Substance/Mixture: Component of a Polyurethane System.

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

Company: ACE COATINGS  
Address: Campo Sagrado, 1133205  
City: Gijón  
Province: Asturias  
Telephone: +34 985 323 328  
E-mail: [info@acebyartcoat.com](mailto:info@acebyartcoat.com)  
Web: [www.acebyartcoat.com](http://www.acebyartcoat.com)

1.4 Emergency telephone number: (Available 24 hours)  
Telephone number  
+34 977 822 245 (Only available during office hours)  
EUROPE: +32 35 75 1234

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4- H302: Harmful if swallowed.  
Skin corrosion, Category 1B- H314: Causes severe skin burns and eye damage.  
Serious eye damage, Category 1- H318: Causes serious eye damage.  
Specific target organ systemic toxicity -repeated exposure, Category 2-H373: May cause damage to organs through prolonged or repeated exposure.  
Acute aquatic toxicity, Category 1 -H400: Very toxic to aquatic life.  
Chronic aquatic toxicity, Category 1- H410: Very toxic to aquatic life with long lasting effects.

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#### 2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Danger

Hazard Statements :

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements :

Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P273 Avoid release to the environment.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. DoNOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Takeoff immediately all contaminated clothing. Rinse skin with water/ shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously withwater for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

Disposal:

P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients which must be listed on the label:

Glyceryl poly(oxy propylene)triamine

Diethylmethylbenzenediamine

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)

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### 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 ingredients

| Chemical Name                                                                                        | CAS-No.<br>EC-No.<br>Registration number    | Classification<br>(REGULATION (EC)<br>No 1272/2008)                                                                         | Concentration<br>(%) |
|------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------|
| Glyceryl poly(oxypropylene)triamine                                                                  | 64852-22-8                                  | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Aquatic Chronic 3;<br>H412                                                       | 30 - 60              |
| Diethylmethylbenzenediamine                                                                          | 68479-98-1<br>270-877-4<br>01-2119486805-25 | Acute Tox. 4; H302,<br>H312<br>Eye Irrit. 2; H319<br>STOT RE 2; H373<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1;<br>H410 | 30 - 60              |
| Poly[oxy(methyl-1,2-ethanediyl)],<br>.alpha.-(2-aminomethylethyl)-<br>.omega.-(2-aminomethylethoxy)- | 9046-10-0                                   | Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Aquatic Chronic 3;<br>H412                                 | 13 - 30              |

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 material safety data sheet to the doctor in attendance.

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### If inhaled :

Move to fresh air in case of accidental inhalation of vapors.

If breathing is irregular or stopped, administer artificial respiration.

If unconscious place in recovery position and seek medical advice.

If symptoms persist, call a physician.

### In case of skin contact :

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Wash off immediately with plenty of water for at least 15 minutes.

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Wash contaminated clothing before re-use.

### 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.

Rinse immediately with plenty of water for at least 15 minutes.

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Protect unharmed eye.

Keep eye wide open while rinsing.

### If swallowed :

Clean mouth with water and drink afterwards plenty of water.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Do not induce vomiting without medical advice.

If a person vomits when lying on his back, place him in the recovery position.

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 : Keep under medical supervision for at least 48 hours.

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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: No data is available on the product itself.

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

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

Hazardous combustion products: No data is available on the product itself.

### 5.3 Advice for firefighters

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

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 : Evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak.

Ensure adequate ventilation.

Use personal protective equipment.

### 6.2 Environmental precautions

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

Do not flush into surface water or sanitary sewer system.

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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## 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

None

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Technical measures :

Ensure that eyewash stations and safety showers are close to the workstation location.

Local/Total ventilation :

Do not use in areas without adequate ventilation.

Ensure adequate ventilation.

Advice on safe handling :

Avoid contact with skin and eyes.

Do not get on skin or clothing.

Do not swallow.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Do not use in areas without adequate ventilation.

To avoid spills during handling keep bottle on a metal tray.

Keep container closed when not in use.

Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Hygiene measures :

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Remove contaminated clothing and protective equipment before entering eating areas.

Wash hands before breaks and immediately after handling the product.

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## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Keep in properly labeled containers. Keep container tightly closed in a dry and well-ventilated place. Keep container closed when not in use. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Other data : No decomposition if stored and applied as directed.

## 7.3 Specific end use(s)

## 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:

Diethylmethylbenzenediamine :

End Use: Consumers

Routes of exposure: Oral

Potential health effects: Systemic effects

Value: 0,1 mg/kg

End Use: Consumers

Routes of exposure: Inhalation

Potential health effects: Systemic effects

Value: 0,1 mg/m<sup>3</sup>

End Use: Consumers

Routes of exposure: Dermal

Potential health effects: Systemic effects

Value: 1 mg/kg

End Use: Workers

Routes of exposure: Inhalation

Potential health effects: Systemic effects

Value: 0,1 mg/m<sup>3</sup>

End Use: Workers

Routes of exposure: Dermal

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Potential health effects: Systemic effects

Value: 1 mg/kg

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

Diethylmethylbenzenediamine :

Fresh water

Value: 0,0005 mg/l

Marine water

Value: 0,00005 mg/l

Freshwater - intermittent

Value: 0,005 mg/l

Sewage treatment plant

Value: 17 mg/l

Secondary Poisoning

Value: 2 mg/kg

Fresh water sediment

Value: 0,029 mg/kg

Sea sediment

Value: 0,0029 mg/kg

Soil

Value: 0,0056 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.

Hand protection

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.

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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 :

In the case of vapor formation use a respirator with an approved filter.

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Color : No data available

Odor : No data available

Odor Threshold : No data available

pH : No data available

Flash point : > 100 °C

Method: closed cup

Evaporation rate : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : No data available

Bulk density : No data available

Solubility(ies)

Water solubility : No data available

Autoignition temperature : not determined

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not applicable

Oxidizing properties : No data available

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## 9.2 Other information

No data available

**SECTION 10: STABILITY AND REACTIVITY**

## 10.1 Reactivity

Stable under recommended storage conditions.

## 10.2 Chemical stability

No decomposition if stored and applied as directed.

## 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

No decomposition if used as directed.

## 10.4 Conditions to avoid

Conditions to avoid : No data available

## 10.5 Incompatible materials

## 10.6 Hazardous decomposition products

**SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects

## Acute toxicity

## Acute oral toxicity - Product :

Acute toxicity estimate : 1.928 mg/kg

Method: Calculation method

## Acute inhalation toxicity :

No data available

## Ingredients:

Glyceryl poly(oxy propylene)triamine:

Acute dermal toxicity : LD50 (Rabbit): 12.500 mg/kg

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Diethylmethylbenzenediamine:

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Poly[oxy(methyl-1,2-ethanediyl)],.alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy):

Acute dermal toxicity : LD50 (Rabbit): 2.090 mg/kg

Acute toxicity (other routes of administration):

No data available

Skin corrosion/irritation

Ingredients:

Diethylmethylbenzenediamine:

Species: Rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Result: No skin irritation

Poly[oxy(methyl-1,2-ethanediyl)],.alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy):

Assessment: Causes burns.

Result: Causes burns.

Serious eye damage/eye irritation

Ingredients:

Diethylmethylbenzenediamine:

Species: Rabbit

Exposure time: >= 24 h

Method: No information available.

Result: irritating

Respiratory or skin sensitization

Ingredients:

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Diethylmethylbenzenediamine:

Test Type: No data available

Routes of exposure: Skin

Species: Guinea pig

Method: No information available.

Result: Does not cause skin sensitization.

Assessment: No data available

Germ cell mutagenicity

Ingredients:

Diethylmethylbenzenediamine:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Test species: Rodent cell line

Metabolic activation: Metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test species: Rodent cell line

Metabolic activation: negative

Method: OECD Test Guideline 476

Result: negative

Test Type: dominant lethal test

Test species: Rodent cell line

Result: negative

Test Type: Micronucleus test

Test species: Rodent cell line

Result: negative

Test Type: Chromosome aberration test in vitro

Test species: Rodent cell line

Result: negative

Ingredients:

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Diethylmethylbenzenediamine:  
Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: Mouse  
Cell type: Bone marrow  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

### Carcinogenicity

Ingredients:  
Diethylmethylbenzenediamine:  
Species: Rat  
Application Route: Oral  
Exposure time: 24 month(s)  
Dose: 1.8 - 3.2 mg/kg body weight  
Frequency of Treatment: 7 days/week  
LOAEL: LOAEL (Lowest observed adverse effect level): 1,8 - 3,2 mg/kg body weight  
Method: OECD Test Guideline 451  
Result: negative

Carcinogenicity -Assessment: No data available

### Reproductive toxicity

Effects on fertility : No data available  
Effects on fetal development : No data available  
Reproductive toxicity -Assessment: No data available

STOT-single exposure  
No data available

STOT-repeated exposure  
No data available

Repeated dose toxicity

Ingredients:

# ACE UV SHIELD B

Diethylmethylbenzenediamine:

Species: Rat, male and female

NOAEL (No observed adverse effect level): 8 - 10 mg/kg

NOAEL: 8 - 10 mg/kg

Application Route: Ingestion

Exposure time: 90 dMethod: OECD Test Guideline 408

Target Organs: Pancreas, Kidney, Liver

Species: Rabbit, male and female

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

NOAEL: > 100 mg/kg

Application Route: Skin contact

Exposure time: 21 dNumber of exposures: 5

Method: OECD Test Guideline 410

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

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Ingredients:

Glyceryl poly(oxy propylene)triamine:

Toxicity to bacteria : LC50 : 68 mg/l

Exposure time: 96 h

Diethylmethylbenzenediamine:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 200 mg/l

Exposure time: 48 h

Test Type: static test

Test substance: Fresh water

Method: DIN 38412

GLP: no

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): 0,5 mg/l

Exposure time: 48 h

Test Type: static test

Test substance: Fresh water

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

GLP: no

Toxicity to algae : ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): ca. 104 mg/l

Exposure time: 72 h

Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 201

GLP: yes

NOEC (Desmodesmus subspicatus (Scenedesmus subspicatus)): ca. 32 mg/l

Exposure time: 72 h

Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 201

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GLP: yes

M-Factor (Acute aquatic toxicity): 1

Toxicity to bacteria : EC50 (Pseudomonas putida):  $\geq 170$  mg/l

Exposure time: 24 h

Test Type: static test

Test substance: Fresh water

GLP: no

EC10 (Pseudomonas putida): 170 mg/l

Exposure time: 24 h

Test Type: static test

Test substance: Fresh water

GLP: no

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy):

Toxicity to fish : LC50 :  $> 100$  mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 : 15 mg/l

Exposure time: 48 h

Toxicity to algae : IC50 : 135 mg/l

Exposure time: 72 h

## 12.2 Persistence and degradability

Ingredients:

Diethylmethylbenzenediamine:

Biodegradability : Result: Not readily biodegradable.

Biodegradation:  $< 60$  %

Exposure time: 28 d

Result: Not readily biodegradable.

Biodegradation:  $< 1$  %

Exposure time: 28 d

Method: OECD Test Guideline 301D

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## 12.3 Bioaccumulative potential

### Ingredients:

Diethylmethylbenzenediamine:

Bioaccumulation : Bioconcentration factor (BCF): 13,82

GLP: no

Remarks: Bioaccumulation is unlikely.

Bioconcentration factor (BCF): 2,75

Remarks: Does not bioaccumulate.

## 12.4 Mobility in soil

### Ingredients:

Diethylmethylbenzenediamine:: Koc: 132 - 170

Distribution among environmental compartments: Koc: 31,72 - 551

## 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:

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..

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product :

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.

Do not dispose of waste into sewer.

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Offer surplus and non-recyclable solutions to a licensed disposal company.

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.

(POLYOXYPROPYLENEDIAMINE, DIETHYLTOLUENEDIAMINE)

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.(POLYOXYPROPYLENEDIAMINE, DIETHYLTOLUENEDIAMINE)

14.3 Transport hazardclass(es)

8

14.4 Packing group : II

Labels : 8

EmS Code : F-A, S-B

14.5 Environmental hazards

Marine pollutant : yes

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ADR

14.1 UN number

UN 2735

14.2 UN proper shipping name

AMINES, LIQUID, CORROSIVE, N.O.S.(POLYOXYPROPYLENEDIAMINE,  
DIETHYLTOLUENEDIAMINE)

14.3 Transport hazard class(es)

8

14.4 Packing group : II

Labels : 8

14.5 Environmental hazards

Marine pollutant : no

RID

14.1 UN number

UN 2735

14.2 UN proper shipping name

AMINES, LIQUID, CORROSIVE, N.O.S.(POLYOXYPROPYLENEDIAMINE,  
DIETHYLTOLUENEDIAMINE)

14.3 Transport hazardclass(es)

8

14.4 Packing group : II

Labels : 8

14.5 Environmental hazards

Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 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 Authorization (Article 59). : Not applicable

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Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major accident hazards involving dangerous substances  
Not applicable

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

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

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL.

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

NZIoC : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

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

PICCS : Not in compliance with the inventory

IECSC : On the inventory, or 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)

### 15.2 Chemical Safety Assessment

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements

H302 : Harmful if swallowed.

H312 : Harmful in contact with skin.

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H318 : Causes serious eye damage.

H319 : Causes serious eye irritation.

H373 : May cause damage to organs through prolonged or repeated exposure.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity

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# ACE UV SHIELD B

Aquatic Acute : Acute aquatic toxicity

Aquatic Chronic : Chronic aquatic toxicity

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation

Skin Corr. : Skin corrosion

Skin Irrit. : Skin irritation

STOT RE : Specific target organ systemic toxicity - repeated exposure

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